

atu

[illegible]

```
CCCCCCCC 000000 NN NN SSSSSSSS 000000 LL EEEEEEEEE
CCCCCCCC 000000 NN NN SSSSSSSS 000000 LL EEEEEEEEE
CC 00 00 NN NN SS SSSSSSSS 00 00 LL EE
CC 00 00 NN NN SS SSSSSSSS 00 00 LL EE
CC 00 00 NN NN SS SSSSSSSS 00 00 LL EE
CC 00 00 NN NN SS SSSSSSSS 00 00 LL EE
CC 00 00 NN NN SS SSSSSSSS 00 00 LL EE
CC 00 00 NN NN SS SSSSSSSS 00 00 LL EE
CC 00 00 NN NN SS SSSSSSSS 00 00 LL EE
CC 00 00 NN NN SS SSSSSSSS 00 00 LL EE
CCCCCCCC 000000 NN NN SSSSSSSS 000000 LLLLLLLLLL EEEEEEEEE
CCCCCCCC 000000 NN NN SSSSSSSS 000000 LLLLLLLLLL EEEEEEEEE
.....
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LL I I I I I SSSSSSSS
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```

1 0001 0 MODULE console (IDENT = 'V04-000') =
2 0002 1 BEGIN
3 0003 1
4 0004 1
5 0005 1 *****
6 0006 1 *
7 0007 1 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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24 0024 1 *
25 0025 1 *
26 0026 1 *****
27 0027 1
28 0028 1 ++
29 0029 1 FACILITY: DECnet V2.0 event logger
30 0030 1
31 0031 1 ABSTRACT:
32 0032 1
33 0033 1   This module contains all console display formatting routines
34 0034 1   for the event receiver.
35 0035 1
36 0036 1 ENVIRONMENT:
37 0037 1
38 0038 1   VAX/VMS operating system. unprivileged user mode,
39 0039 1
40 0040 1 AUTHOR: Tim Halvorsen, June 1980
41 0041 1
42 0042 1 Modified by:
43 0043 1
44 0044 1   V03-019 MKP0001      Kathy Perko      12-June-1984
45 0045 1   Add Ethernet address to Network Management events. And
46 0046 1   increase size of OPCOM message buffers.
47 0047 1
48 0048 1   V03-018 PRB0327      Paul Beck      5-Apr-1984  22:14
49 0049 1   No longer suppress display of area 1.
50 0050 1
51 0051 1   V017   TMH0017      Tim Halvorsen      20-Sep-1983
52 0052 1   Add support for DECnet/PLUTO events (simply avoid
53 0053 1   printing 'Parameter #n =' for these events).
54 0054 1   Fix printing area numbers for area #1.
55 0055 1
56 0056 1   V016   TMH0016      Tim Halvorsen      26-Apr-1983
57 0057 1   Add 'verification password required from PH3 node' and

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58	0058	1		'dropped by adjacent node' reasons.
59	0059	1		
60	0060	1	V015	TMH0015 Tim Halvorsen 08-Apr-1983
61	0061	1		Make ECOs approved during the March 1983 DRG meetings.
62	0062	1		Add support for DECnet/SNA Gateway events (simply avoid
63	0063	1		printing 'Parameter #n =' for these events).
64	0064	1		Suppress printing area numbers for area #1.
65	0065	1		
66	0066	1	V014	TMH0014 Tim Halvorsen 28-Nov-1982
67	0067	1		Add extra blank line after each formatted event,
68	0068	1		to help make each one more readable.
69	0069	1		
70	0070	1	V013	TMH0013 Tim Halvorsen 16-Nov-1982
71	0071	1		Display area addresses correctly.
72	0072	1		Add formatting for new NODE and DTE event parameters
73	0073	1		for event class 0.
74	0074	1		
75	0075	1	V012	TMH0012 Tim Halvorsen 08-Nov-1982
76	0076	1		Fix display of DTE old/new state.
77	0077	1		
78	0078	1	V011	TMH0011 Tim Halvorsen 26-Sep-1982
79	0079	1		Add X.25 counters and VMS-specific events.
80	0080	1		Add 'module' to the list of entities which
81	0081	1		are identified before the actual parameters.
82	0082	1		
83	0083	1	V010	TMH0010 Tim Halvorsen 29-Jul-1982
84	0084	1		Add Phase IV event parameters.
85	0085	1		
86	0086	1	V009	TMH0009 Tim Halvorsen 20-Jun-1982
87	0087	1		Update list of line and circuit counters.
88	0088	1		
89	0089	1	V008	TMH0008 Tim Halvorsen 28-Dec-1981
90	0090	1		Add PCL-11B and UNA counters.
91	0091	1		
92	0092	1	V007	TMH0007 Tim Halvorsen 19-Aug-1981
93	0093	1		Change text of CRC remote node parameter.
94	0094	1		
95	0095	1	V006	TMH0006 Tim Halvorsen 05-Aug-1981
96	0096	1		Add DAP CRC event formatting
97	0097	1		
98	0098	1	V005	TMH0005 Tim Halvorsen 08-Jul-1981
99	0099	1		Add PCL11-B line counters, and new 2.2 events and parameters.
100	0100	1		Increase maximum size of output strings sent to OPCOM (monitor)
101	0101	1		to 512, as a result of enhancements made to OPCOM and \$BRDCST.
102	0102	1		
103	0103	1	V004	TMH0004 Tim Halvorsen 07-Jul-1981
104	0104	1		Use SHRLIB\$ rather than LIB\$ for NMALIBRY.L32.
105	0105	1		
106	0106	1	V003	TMH0003 Tim Halvorsen 05-Jan-1981
107	0107	1		Fix decoding of line service status and display
108	0108	1		error message associated with status.
109	0109	1		
110	0110	1	V002	TMH0002 Tim Halvorsen 19-Nov-1980
111	0111	1		Make formatting routines callable with an action
112	0112	1		routine to actually perform the output. This allows
113	0113	1		the monitor sink output routine to use the formatting
114	0114	1		routines as well as the console sink.

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: 115      0115 1 |
: 116      0116 1 |          V001      TMH0001      Tim Halvorsen  17-Nov-1980
: 117      0117 1 |          Remove noise words in formatted event output to
: 118      0118 1 |          reduce overall size of the output message so that
: 119      0119 1 |          it won't be truncated by OPCOM.
: 120      0120 1 |          Write the formatted output to SYS$OUTPUT if we are
: 121      0121 1 |          logging received events.
: 122      0122 1 |          --
: 123      0123 1 |
: 124      0124 1 |          Include files
: 125      0125 1 |
: 126      0126 1 |
: 127      0127 1 |
: 128      0128 1 | LIBRARY 'SYSS$LIBRARY:STARLET';          ! VAX/VMS common definitions
: 129      0129 1 |
: 130      0130 1 | LIBRARY 'SHRLIB$:NMALIBRY';              ! Get counter type definitions
: 131      0131 1 |
: 132      0132 1 | LIBRARY 'LIB$:EVCDEF';                   ! Event data definitions
: 133      0133 1 |
: 134      0134 1 | REQUIRE 'LIB$:EVLDEF';                   ! Facility definitions

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136 0543 1  |
137 0544 1  | Table of contents
138 0545 1  |
139 0546 1  |
140 0547 1  | FORWARD ROUTINE
141 0548 1  |     format_event:      NOVALUE,      | Format an event record
142 0549 1  |     append_strings:    NOVALUE,      | Append a string to another string
143 0550 1  |     format_parameter:  NOVALUE,      | Format a NICE parameter
144 0551 1  |     unknown_parameter: NOVALUE,      | Format an unknown parameter
145 0552 1  |     unknown_param_data: NOVALUE,     | Format unknown parameter data
146 0553 1  |     format_counter:    NOVALUE,      | Format a NICE counter
147 0554 1  |     format_nodeadr:    NOVALUE,      | Format a area/node address
148 0555 1  |
149 0556 1  |
150 0557 1  | Define macro for message reporting
151 0558 1  |
152 0559 1  |
153 0560 1  | MACRO
154 M 0561 1  |     msg(ident) =
155 M 0562 1  |         BEGIN
156 M 0563 1  |             %IF NOT %DECLARED(%NAME('evl$',ident))
157 M 0564 1  |                 %THEN EXTERNAL LITERAL %NAME('evl$',ident); %FI
158 M 0565 1  |             %NAME('evl$',ident)
159 M 0566 1  |         END%;
160 0567 1  |
161 0568 1  |
162 0569 1  | Define a macro for constructing output strings
163 0570 1  |
164 0571 1  |
165 0572 1  | MACRO
166 M 0573 1  |     append(string) =
167 M 0574 1  |         append_strings(desc,UPLIT BYTE(%ASCII string)
168 0575 1  |             %IF %LENGTH GTR 1 %THEN ,%REMAINING %FI)%);
169 0576 1  |
170 0577 1  |
171 0578 1  | Literals
172 0579 1  |
173 0580 1  |
174 0581 1  | LITERAL
175 0582 1  |     true = 1,
176 0583 1  |     false = 0,
177 0584 1  |     max_output = 512;      | Maximum length of output string
178 0585 1  |
179 0586 1  |
180 0587 1  | External storage
181 0588 1  |
182 0589 1  |
183 0590 1  | EXTERNAL
184 0591 1  |     evl$gl_logmask:      $BBLOCK;    | Internal logging mask
185 0592 1  |
186 0593 1  |
187 0594 1  | External routines
188 0595 1  |
189 0596 1  |
190 0597 1  | EXTERNAL ROUTINE
191 0598 1  |     evl$unjulian,        | Convert julian half-day time
192 0599 1  |     wkq$add_work_item;   | Add work to work queue

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193 0600 1
194 0601 1
195 0602 1 Define all known events and the associated message text
196 0603 1
197 0604 1
198 0605 1 MACRO
199 0606 1     evtdecl [name] = %NAME('evl$',name)%,
200 0607 1     evtdef [name] = WORD(%NAME('evc$',name)),LONG(msg(name))%,
201 M 0608 1     event_list [] =
202 M 0609 1         EXTERNAL LITERAL evtdecl(%REMAINING);
203 0610 1         BIND known_events = UPLIT(evtdef(%REMAINING),LONG(0))%;
204 0611 1
205 P 0612 1     event_list(
206 P 0613 1         nma_los,
207 P 0614 1         nma_anc,
208 P 0615 1         nma_alc,
209 P 0616 1         nma_als,
210 P 0617 1         nma_lcz,
211 P 0618 1         nma_ncz,
212 P 0619 1         nma_psl,
213 P 0620 1         nma_abs,
214 P 0621 1         nma_ctr,
215 P 0622 1         nma_zer,
216 P 0623 1
217 P 0624 1         scl_lns,
218 P 0625 1         scl_acr,
219 P 0626 1
220 P 0627 1         nsl_ims,
221 P 0628 1         nsl_ifc,
222 P 0629 1         nsl_dbr,
223 P 0630 1
224 P 0631 1         tpl_apl,
225 P 0632 1         tpl_upl,
226 P 0633 1         tpl_rpl,
227 P 0634 1         tpl_opl,
228 P 0635 1         tpl_pfm,
229 P 0636 1         tpl_pru,
230 P 0637 1         tpl_vfr,
231 P 0638 1         tpl_ldf,
232 P 0639 1         tpl_cds,
233 P 0640 1         tpl_cdo,
234 P 0641 1         tpl_lup,
235 P 0642 1         tpl_ilf,
236 P 0643 1         tpl_isf,
237 P 0644 1         tpl_iof,
238 P 0645 1         tpl_rch,
239 P 0646 1         tpl_aup,
240 P 0647 1         tpl_arj,
241 P 0648 1         tpl_ach,
242 P 0649 1         tpl_lds,
243 P 0650 1         tpl_ldo,
244 P 0651 1
245 P 0652 1         dll_lsc,
246 P 0653 1         dll_rsc,
247 P 0654 1         dll_prs,
248 P 0655 1         dll_snd,
249 P 0656 1         dll_ret,

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250 P 0657 1 dll_slc,
251 P 0658 1 dll_bhf,
252 P 0659 1 dll_sad,
253 P 0660 1 dll_stt,
254 P 0661 1 dll_lbs,
255 P 0662 1 dll_rst,
256 P 0663 1 dll_stc,
257 P 0664 1 dll_rme,
258 P 0665 1 dll_ifl,
259 P 0666 1 dll_sfl,
260 P 0667 1 dll_rfl,
261 P 0668 1 dll_cdc,
262 P 0669 1 dll_dtu,
263 P 0670 1 dll_dtd,
264 P 0671 1
265 P 0672 1 pll_dsr,
266 P 0673 1 pll_rin,
267 P 0674 1 pll_car,
268 P 0675 1 pll_mem,
269 P 0676 1 pll_com,
270 P 0677 1 pll_pfm,
271 P 0678 1
272 P 0679 1 vms_dbc,
273 P 0680 1 vms_dpc,
274 P 0681 1 vms_dp2,
275 P 0682 1 vms_pcr,
276 0683 1 vms_ptr);
277 0684 1
278 0685 1
279 0686 1 : Define all known counters and the associated message text
280 0687 1 :
281 0688 1
282 0689 1 MACRO
283 0690 1   ctrdecl [name] = %NAME('evl$',name)%,
284 0691 1   ctrdef [name] = WORD(%NAME('nma$c_',name)),LONG(msg(name))%,
285 M 0692 1   counter_list [] =
286 M 0693 1   EXTERNAL LITERAL ctrdecl(%REMAINING);
287 0694 1   BIND known_counters = UPLIT(ctrdef(%REMAINING),LONG(0))%;
288 0695 1
289 P 0696 1 counter_list(
290 P 0697 1   ctnod_zer,
291 P 0698 1   ctnod_brc,
292 P 0699 1   ctnod_bsn,
293 P 0700 1   ctnod_mrc,
294 P 0701 1   ctnod_msn,
295 P 0702 1   ctnod_crc,
296 P 0703 1   ctnod_csn,
297 P 0704 1   ctnod_rto,
298 P 0705 1   ctnod_rse,
299 P 0706 1   ctnod_mll,
300 P 0707 1   ctnod_apl,
301 P 0708 1   ctnod_nul,
302 P 0709 1   ctnod_nol,
303 P 0710 1   ctnod_opl,
304 P 0711 1   ctnod_pfe,
305 P 0712 1   ctnod_rul,
306 P 0713 1   ctnod_ver,

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307	P 0714	1	
308	P 0715	1	ctcir_zer.
309	P 0716	1	ctcir_apr.
310	P 0717	1	ctcir_dps.
311	P 0718	1	ctcir_acl.
312	P 0719	1	ctcir_crl.
313	P 0720	1	ctcir_tpr.
314	P 0721	1	ctcir_tps.
315	P 0722	1	ctcir_tcl.
316	P 0723	1	ctcir_ldn.
317	P 0724	1	ctcir_ifl.
318	P 0725	1	ctcir_brc.
319	P 0726	1	ctcir_bsn.
320	P 0727	1	ctcir_mby.
321	P 0728	1	ctcir_dbr.
322	P 0729	1	ctcir_dbs.
323	P 0730	1	ctcir_dei.
324	P 0731	1	ctcir_deo.
325	P 0732	1	ctcir_rrt.
326	P 0733	1	ctcir_lrt.
327	P 0734	1	ctcir_rbe.
328	P 0735	1	ctcir_lbe.
329	P 0736	1	ctcir_sie.
330	P 0737	1	ctcir_slr.
331	P 0738	1	ctcir_ubu.
332	P 0739	1	ctcir_rpe.
333	P 0740	1	ctcir_lpe.
334	P 0741	1	ctcir_lir.
335	P 0742	1	ctcir_rir.
336	P 0743	1	ctcir_nir.
337	P 0744	1	ctcir_mne.
338	P 0745	1	ctcir_eri.
339	P 0746	1	ctcir_ero.
340	P 0747	1	ctcir_rto.
341	P 0748	1	ctcir_lto.
342	P 0749	1	ctcir_ber.
343	P 0750	1	ctcir_bel.
344	P 0751	1	
345	P 0752	1	ctlin_apr.
346	P 0753	1	ctlin_dps.
347	P 0754	1	ctlin_acl.
348	P 0755	1	ctlin_tpr.
349	P 0756	1	ctlin_tps.
350	P 0757	1	ctlin_tcl.
351	P 0758	1	ctlin_ldn.
352	P 0759	1	ctlin_ifl.
353	P 0760	1	ctlin_brc.
354	P 0761	1	ctlin_bsn.
355	P 0762	1	ctlin_mby.
356	P 0763	1	ctlin_dbr.
357	P 0764	1	ctlin_dbs.
358	P 0765	1	ctlin_mbl.
359	P 0766	1	ctlin_bld.
360	P 0767	1	ctlin_bsl.
361	P 0768	1	ctlin_bsm.
362	P 0769	1	ctlin_dei.
363	P 0770	1	ctlin_deo.

364	P 0771	1	ctlin_rrt,
365	P 0772	1	ctlin_lrt,
366	P 0773	1	ctlin_rbe,
367	P 0774	1	ctlin_lbe,
368	P 0775	1	ctlin_sie,
369	P 0776	1	ctlin_slr,
370	P 0777	1	ctlin_sfl,
371	P 0778	1	ctlin_cdc,
372	P 0779	1	ctlin_rfl,
373	P 0780	1	ctlin_ufr,
374	P 0781	1	ctlin_ovr,
375	P 0782	1	ctlin_sbu,
376	P 0783	1	ctlin_ubu,
377	P 0784	1	ctlin_rpe,
378	P 0785	1	ctlin_lpe,
379	P 0786	1	ctlin_mbs,
380	P 0787	1	ctlin_msn,
381	P 0788	1	ctlin_rme,
382	P 0789	1	ctlin_lce,
383	P 0790	1	ctlin_mse,
384	P 0791	1	
385	P 0792	1	ctxp_zer,
386	P 0793	1	ctxp_brc,
387	P 0794	1	ctxp_bsn,
388	P 0795	1	ctxp_blr,
389	P 0796	1	ctxp_bls,
390	P 0797	1	ctxp_crc,
391	P 0798	1	ctxp_csn,
392	P 0799	1	ctxp_fsr,
393	P 0800	1	ctxp_fss,
394	P 0801	1	ctxp_msa,
395	P 0802	1	ctxp_mca,
396	P 0803	1	ctxp_rse,
397	P 0804	1	ctxp_lir,
398	P 0805	1	ctxp_rir,
399	P 0806	1	ctxp_nir,
400	P 0807	1	ctxp_rst,
401	P 0808	1	
402	P 0809	1	ctxs_zer,
403	P 0810	1	ctxs_mca,
404	P 0811	1	ctxs_icr,
405	P 0812	1	ctxs_llr);

```
407 0813 1 GLOBAL ROUTINE format_event (event, event_length,  
408 0814 1 output_routine, output_parm): NOVALUE =  
409 0815 1  
410 0816 1 ---  
411 0817 1  
412 0818 1 Output an event record to the console sink.  
413 0819 1  
414 0820 1 Inputs:  
415 0821 1  
416 0822 1 event = Address of event record  
417 0823 1 event_length = Length of event record  
418 0824 1 output_routine = Address of routine to call for each formatted line  
419 0825 1 output_parm = Optional parameter to be sent to output routine  
420 0826 1  
421 0827 1 Outputs:  
422 0828 1  
423 0829 1 None  
424 0830 1 ---  
425 0831 1  
426 0832 2 BEGIN  
427 0833 2  
428 0834 2 MACRO  
429 M 0835 2 new_line =  
430 M 0836 2 BEGIN  
431 M 0837 2 (.output_routine)(.output_parm, desc, .short_form); ! Call output action routine  
432 M 0838 2 desc [0] = 0; ! Reset descriptor length  
433 0839 2 ENDX;  
434 0840 2  
435 0841 2 MAP  
436 0842 2 event: REF $BBLOCK; ! Address of event record  
437 0843 2  
438 0844 2 LOCAL  
439 0845 2 ptr: REF $BBLOCK, ! Address of event data parameter  
440 0846 2 days, seconds, msecs, ! For conversion of julian time  
441 0847 2 comma_needed: BYTE, ! Boolean; true if comma needed on line  
442 0848 2 time: VECTOR [2], ! Converted 64-bit system time  
443 0849 2 short_form, ! Length of short form of display  
444 0850 2 desc: VECTOR [2], ! Descriptor of output buffer  
445 0851 2 buffer: VECTOR [max_output, BYTE]; ! Output buffer (extra for counters)  
446 0852 2  
447 0853 2 desc [0] = 0; ! Setup descriptor of buffer  
448 0854 2 desc [1] = buffer;  
449 0855 2 short_form = -1; ! Indicate no short form yet  
450 0856 2  
451 0857 2 append('DECnet event !UL.!UL', .event [evt$v_class], .event [evt$v_type]);  
452 0858 2  
453 0859 2 INCRA ptr FROM known_events BY 6 ! Scan known event table  
454 0860 2 DO  
455 0861 3 BEGIN  
456 0862 3 MAP ptr: REF $BBLOCK;  
457 0863 3 IF ..ptr EQL 0 ! If end of table,  
458 0864 3 THEN  
459 0865 3 EXITLOOP; ! then exit with failure  
460 0866 3 IF .event [evt$w_code] EQLU .ptr [0,0,16,0] ! If known event,  
461 0867 3 THEN  
462 0868 4 BEGIN  
463 0869 4 LOCAL
```

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464      0870 4      textbuf: VECTOR [128,BYTE], ! Message text buffer
465      0871 4      text: VECTOR [2]; ! Message text descriptor
466      0872 4      text [0] = 128; ! Setup descriptor
467      0873 4      text [1] = textbuf;
468      0874 4      $GETMSG(MSGID = .ptr [2,0,32,0], ! Get message text
469      0875 4      BUFADR = text,
470      0876 4      MSGLEN = text,
471      0877 4      FLAGS = 1); ! without any prefixing
472      0878 4      append(' !AS', text);
473      0879 4      EXITLOOP;
474      0880 3      END;
475      0881 2      END;
476      0882 2
477      0883 2      new_line; ! Start a new line
478      0884 2
479      0885 2      append('From node !AS', format_nodeadr(.event [evt$w_srcadr]));
480      0886 2
481      0887 2      IF .event [evt$b_srcnamlen] NEQ 0 ! If source node name supplied
482      0888 2      THEN
483      0889 2          append(' (!AC)', event [evt$b_srcnamlen]);
484      0890 2
485      0891 2      days = .event [evt$w_julian]; ! Get julian values
486      0892 2      seconds = .event [evt$w_seconds];
487      0893 2      msec = .event [evt$w_msecs];
488      0894 2
489      0895 2      evl$unjulian(days,seconds,msecs,time); ! Convert to system quadword time
490      0896 2
491      0897 2      append(' !%D', time);
492      0898 2
493      0899 2      new_line; ! Start third line of message
494      0900 2      comma_needed = false; ! Start of line, no comma needed yet
495      0901 2
496      0902 2      ptr = event [evt$t_srcnam] + .event [evt$b_srcnamlen]; ! Point to event entity
497      0903 2
498      0904 2      SELECTU CH$RCHAR_A(ptr) ! Select entity based on entity ID
499      0905 2      OF
500      0906 2          SET
501      0907 2          [evc$c_src_lin]: BEGIN
502      0908 2              append('Line !AC', .ptr);
503      0909 2              ptr = CH$RCHAR_A(ptr) + .ptr;
504      0910 2              comma_needed = true;
505      0911 2              END;
506      0912 2
507      0913 2          [evc$c_src_cir]: BEGIN
508      0914 2              append('Circuit !AC', .ptr);
509      0915 2              ptr = CH$RCHAR_A(ptr) + .ptr;
510      0916 2              comma_needed = true;
511      0917 2              END;
512      0918 2
513      0919 2          [evc$c_src_nod]: BEGIN
514      0920 2              append('Node !AS', format_nodeadr(.ptr [0,0,16,0]));
515      0921 2              ptr = .ptr+2;
516      0922 2              IF CH$RCHAR(.ptr) GTRU 0
517      0923 2              THEN
518      0924 2                  append(' (!AC)', .ptr);
519      0925 2              ptr = CH$RCHAR_A(ptr) + .ptr;
520      0926 2              comma_needed = true;

```

```
521 0927 2      END;
522 0928 2
523 0929 3      [evc$src_are]: BEGIN
524 0930 3      append('Area !UB', .ptr [0,0,8,0]);
525 0931 3      ptr = .ptr+1;
526 0932 3      comma_needed = true;
527 0933 2      END;
528 0934 2
529 0935 3      [evc$src_mod]: BEGIN
530 0936 3      append('Module !AC', .ptr);
531 0937 3      ptr = CH$RCHAR_A(ptr) + .ptr;
532 0938 3      comma_needed = true;
533 0939 2      END;
534 0940 2      TES;
535 0941 2
536 0942 2      WHILE .ptr LSSU .event + .event_length : Until end of event record
537 0943 2      DO
538 0944 3      BEGIN
539 0945 3      LOCAL
540 0946 3      startlen;           ! Starting string length
541 0947 3
542 0948 3      IF .desc [0] GTR 45      ! If line already too long,
543 0949 3      THEN
544 0950 4      BEGIN
545 0951 4      new_line;           ! then start another line
546 0952 4      comma_needed = false; ! Indicate no comma on start of line
547 0953 3      END;
548 0954 3
549 0955 3      startlen = .desc [0];    ! Save starting string length
550 0956 3
551 0957 3      IF .comma_needed          ! If comma needed,
552 0958 3      THEN
553 0959 4      BEGIN
554 0960 4      append(', ');         ! then add it
555 0961 4      comma_needed = false; ! and reset flag
556 0962 3      END;
557 0963 3
558 0964 3      IF .ptr [0,15,1,0]      ! If counter data (bit 15),
559 0965 3      THEN
560 0966 4      BEGIN
561 0967 4      IF .short_form LSS 0    ! If first counter,
562 0968 4      THEN
563 0969 4      short_form = .startlen ! set short form up to this point
564 0970 4      and trailing comma
565 0971 4      ELSE
566 0972 4      short_form = 0;        ! else skip all counter output
567 0973 4      new_line;             ! start a new line
568 0974 4      format_counter(desc, ptr, ! then format the counter; update ptr
569 0975 4      .event + .event_length - .ptr);
570 0976 4      END
571 0977 3      ELSE
572 0978 3      format_parameter(desc, ptr, ! else format the parameter; update ptr
573 0979 3      .event + .event_length - .ptr,
574 0980 3      .event [evt$vc[ass]]);
575 0981 3
576 0982 3      IF .startlen NEQ .desc [0] ! If anything was appended to string,
577 0983 3      THEN
```

```

: 578      0984 3      comma_needed = true;
: 579      0985 2      END;
: 580      0986 2
: 581      0987 2 If .desc [0] GTR 0
: 582      0988 2 THEN
: 583      0989 2      new_line;
: 584      0990 2
: 585      0991 2 new_line;
: 586      0992 2
: 587      0993 1 END;

```

```

. then insert a comma

! If something in buffer,

! Output the last line

! Output one last blank line

```

```

.TITLE  CONSOLE
.IDENT  \V04-000\

.PSECT  $SPLITS,NOWRT,NOEXE,2

```

```

0000 00000 P.AAA: .WORD 0
00000000G 00002 .LONG EVLS_NMA_LOS
0001 00006 .WORD 1
00000000G 00008 .LONG EVLS_NMA_ANC
0002 0000C .WORD 2
00000000G 0000E .LONG EVLS_NMA_ALC
0003 00012 .WORD 3
00000000G 00014 .LONG EVLS_NMA_ALS
0004 00018 .WORD 4
00000000G 0001A .LONG EVLS_NMA_LCZ
0005 0001E .WORD 5
00000000G 00020 .LONG EVLS_NMA_NCZ
0006 00024 .WORD 6
00000000G 00026 .LONG EVLS_NMA_PSL
0007 0002A .WORD 7
00000000G 0002C .LONG EVLS_NMA_ABS
0008 00030 .WORD 8
00000000G 00032 .LONG EVLS_NMA_CTR
0009 00036 .WORD 9
00000000G 00038 .LONG EVLS_NMA_ZER
0080 0003C .WORD 128
00000000G 0003E .LONG EVLS_SCL_LNS
0081 00042 .WORD 129
00000000G 00044 .LONG EVLS_SCL_ACR
00C0 00048 .WORD 192
00000000G 0004A .LONG EVLS_NSL_IMS
00C1 0004E .WORD 193
00000000G 00050 .LONG EVLS_NSL_IFC
00C2 00054 .WORD 194
00000000G 00056 .LONG EVLS_NSL_DBR
0100 0005A .WORD 256
00000000G 0005C .LONG EVLS_TPL_APL
0101 00060 .WORD 257
00000000G 00062 .LONG EVLS_TPL_UPL
0102 00066 .WORD 258
00000000G 00068 .LONG EVLS_TPL_RPL
0103 0006C .WORD 259
00000000G 0006E .LONG EVLS_TPL_OPL
0104 00072 .WORD 260
00000000G 00074 .LONG EVLS_TPL_PFM

```

; R

0105	00078	.WORD	261
00000000G	0007A	.LONG	EVL\$_TPL_PRU
0106	0007E	.WORD	262
00000000G	00080	.LONG	EVL\$_TPL_VFR
0107	00084	.WORD	263
00000000G	00086	.LONG	EVL\$_TPL_LDF
0108	0008A	.WORD	264
00000000G	0008C	.LONG	EVL\$_TPL_CDS
0109	00090	.WORD	265
00000000G	00092	.LONG	EVL\$_TPL_CDO
010A	00096	.WORD	266
00000000G	00098	.LONG	EVL\$_TPL_LUP
010B	0009C	.WORD	267
00000000G	0009E	.LONG	EVL\$_TPL_ILF
010C	000A2	.WORD	268
00000000G	000A4	.LONG	EVL\$_TPL_ISF
010D	000A8	.WORD	269
00000000G	000AA	.LONG	EVL\$_TPL_IOF
010E	000AE	.WORD	270
00000000G	000B0	.LONG	EVL\$_TPL_RCH
010F	000B4	.WORD	271
00000000G	000B6	.LONG	EVL\$_TPL_AUP
0110	000BA	.WORD	272
00000000G	000BC	.LONG	EVL\$_TPL_ARJ
0111	000C0	.WORD	273
00000000G	000C2	.LONG	EVL\$_TPL_ACH
0112	000C6	.WORD	274
00000000G	000C8	.LONG	EVL\$_TPL_LDS
0113	000CC	.WORD	275
00000000G	000CE	.LONG	EVL\$_TPL_LDO
0140	000D2	.WORD	320
00000000G	000D4	.LONG	EVL\$_DLL_LSC
0141	000D8	.WORD	321
00000000G	000DA	.LONG	EVL\$_DLL_RSC
0142	000DE	.WORD	322
00000000G	000E0	.LONG	EVL\$_DLL_PRS
0143	000E4	.WORD	323
00000000G	000E6	.LONG	EVL\$_DLL_SND
0144	000EA	.WORD	324
00000000G	000EC	.LONG	EVL\$_DLL_RET
0145	000F0	.WORD	325
00000000G	000F2	.LONG	EVL\$_DLL_SLC
0146	000F6	.WORD	326
00000000G	000F8	.LONG	EVL\$_DLL_BHF
0147	000FC	.WORD	327
00000000G	000FE	.LONG	EVL\$_DLL_SAD
0148	00102	.WORD	328
00000000G	00104	.LONG	EVL\$_DLL_STT
0149	00108	.WORD	329
00000000G	0010A	.LONG	EVL\$_DLL_LBS
014A	0010E	.WORD	330
00000000G	00110	.LONG	EVL\$_DLL_RST
014B	00114	.WORD	331
00000000G	00116	.LONG	EVL\$_DLL_STC
014C	0011A	.WORD	332
00000000G	0011C	.LONG	EVL\$_DLL_RME
014D	00120	.WORD	333

00000000G	00122	.LONG	EVL\$_DLL_IFL
014E	00126	.WORD	334
00000000G	00128	.LONG	EVL\$_DLL_SFL
014F	0012C	.WORD	335
00000000G	0012E	.LONG	EVL\$_DLL_RFL
0150	00132	.WORD	336
00000000G	00134	.LONG	EVL\$_DLL_CDC
0151	00138	.WORD	337
00000000G	0013A	.LONG	EVL\$_DLL_DTU
0152	0013E	.WORD	338
00000000G	00140	.LONG	EVL\$_DLL_DTD
0180	00144	.WORD	384
00000000G	00146	.LONG	EVL\$_PLL_DSR
0181	0014A	.WORD	385
00000000G	0014C	.LONG	EVL\$_PLL_RIN
0182	00150	.WORD	386
00000000G	00152	.LONG	EVL\$_PLL_CAR
0183	00156	.WORD	387
00000000G	00158	.LONG	EVL\$_PLL_MEM
0184	0015C	.WORD	388
00000000G	0015E	.LONG	EVL\$_PLL_COM
0185	00162	.WORD	389
00000000G	00164	.LONG	EVL\$_PLL_PFM
2000	00168	.WORD	8192
00000000G	0016A	.LONG	EVL\$_VMS_DBC
2001	0016E	.WORD	8193
00000000G	00170	.LONG	EVL\$_VMS_DPC
2002	00174	.WORD	8194
00000000G	00176	.LONG	EVL\$_VMS_DP2
2003	0017A	.WORD	8195
00000000G	0017C	.LONG	EVL\$_VMS_PCR
2004	00180	.WORD	8196
00000000G	00182	.LONG	EVL\$_VMS_PTR
00000000	00186	.LONG	0
	0018A	.BLKB	2
0000	0018C	.WORD	0
		P.AAB:	
00000000G	0018E	.LONG	EVL\$_CTNOD_ZER
0258	00192	.WORD	600
00000000G	00194	.LONG	EVL\$_CTNOD_BRC
0259	00198	.WORD	601
00000000G	0019A	.LONG	EVL\$_CTNOD_BSN
0262	0019E	.WORD	610
00000000G	001A0	.LONG	EVL\$_CTNOD_MRC
0263	001A4	.WORD	611
00000000G	001A6	.LONG	EVL\$_CTNOD_MSN
026C	001AA	.WORD	620
00000000G	001AC	.LONG	EVL\$_CTNOD_CRC
026D	001B0	.WORD	621
00000000G	001B2	.LONG	EVL\$_CTNOD_CSN
0276	001B6	.WORD	630
00000000G	001B8	.LONG	EVL\$_CTNOD_RTO
0280	001BC	.WORD	640
00000000G	001BE	.LONG	EVL\$_CTNOD_RSE
028C	001C2	.WORD	700
00000000G	001C4	.LONG	EVL\$_CTNOD_MLL
0384	001C8	.WORD	900
00000000G	001CA	.LONG	EVL\$_CTNOD_APL

0385	001CE	.WORD	901
00000000G	001D0	.LONG	EVL\$_CTNOD_NUL
0386	001D4	.WORD	902
00000000G	001D6	.LONG	EVL\$_CTNOD_NOL
0387	001DA	.WORD	903
00000000G	001DC	.LONG	EVL\$_CTNOD_OPL
038E	001E0	.WORD	910
00000000G	001E2	.LONG	EVL\$_CTNOD_PFE
0398	001E6	.WORD	920
00000000G	001E8	.LONG	EVL\$_CTNOD_RUL
03A2	001EC	.WORD	930
00000000G	001EE	.LONG	EVL\$_CTNOD_VER
0000	001F2	.WORD	0
00000000G	001F4	.LONG	EVL\$_CTCIR_ZER
0320	001F8	.WORD	800
00000000G	001FA	.LONG	EVL\$_CTCIR_APR
0321	001FE	.WORD	801
00000000G	00200	.LONG	EVL\$_CTCIR_DPS
0322	00204	.WORD	802
00000000G	00206	.LONG	EVL\$_CTCIR_ACL
0325	0020A	.WORD	805
00000000G	0020C	.LONG	EVL\$_CTCIR_CRL
032A	00210	.WORD	810
00000000G	00212	.LONG	EVL\$_CTCIR_TPR
032B	00216	.WORD	811
00000000G	00218	.LONG	EVL\$_CTCIR_TPS
032C	0021C	.WORD	812
00000000G	0021E	.LONG	EVL\$_CTCIR_TCL
0334	00222	.WORD	820
00000000G	00224	.LONG	EVL\$_CTCIR_LDN
0335	00228	.WORD	821
00000000G	0022A	.LONG	EVL\$_CTCIR_IFL
03E8	0022E	.WORD	1000
00000000G	00230	.LONG	EVL\$_CTCIR_BRC
03E9	00234	.WORD	1001
00000000G	00236	.LONG	EVL\$_CTCIR_BSN
03EA	0023A	.WORD	1002
00000000G	0023C	.LONG	EVL\$_CTCIR_MBY
03F2	00240	.WORD	1010
00000000G	00242	.LONG	EVL\$_CTCIR_DBR
03F3	00246	.WORD	1011
00000000G	00248	.LONG	EVL\$_CTCIR_DBS
03FC	0024C	.WORD	1020
00000000G	0024E	.LONG	EVL\$_CTCIR_DEI
03FD	00252	.WORD	1021
00000000G	00254	.LONG	EVL\$_CTCIR_DEO
0406	00258	.WORD	1030
00000000G	0025A	.LONG	EVL\$_CTCIR_RRT
0407	0025E	.WORD	1031
00000000G	00260	.LONG	EVL\$_CTCIR_LRT
0410	00264	.WORD	1040
00000000G	00266	.LONG	EVL\$_CTCIR_RBE
0411	0026A	.WORD	1041
00000000G	0026C	.LONG	EVL\$_CTCIR_LBE
041A	00270	.WORD	1050
00000000G	00272	.LONG	EVL\$_CTCIR_SIE
041B	00276	.WORD	1051

00000000G	00278	.LONG	EVL\$_CTCIR_SLT
0429	0027C	.WORD	1065
00000000G	0027E	.LONG	EVL\$_CTCIR_UBU
044C	00282	.WORD	1100
00000000G	00284	.LONG	EVL\$_CTCIR_RPE
044D	00288	.WORD	1101
00000000G	0028A	.LONG	EVL\$_CTCIR_LPE
04D8	0028E	.WORD	1240
00000000G	00290	.LONG	EVL\$_CTCIR_LIR
04D9	00294	.WORD	1241
00000000G	00296	.LONG	EVL\$_CTCIR_RIR
04DA	0029A	.WORD	1242
00000000G	0029C	.LONG	EVL\$_CTCIR_NIR
0A8D	002A0	.WORD	2701
00000000G	002A2	.LONG	EVL\$_CTCIR_MNE
0ABE	002A6	.WORD	2750
00000000G	002A8	.LONG	EVL\$_CTCIR_ERI
0ABF	002AC	.WORD	2751
00000000G	002AE	.LONG	EVL\$_CTCIR_ERO
0AC0	002B2	.WORD	2752
00000000G	002B4	.LONG	EVL\$_CTCIR_RTO
0AC1	002B8	.WORD	2753
00000000G	002BA	.LONG	EVL\$_CTCIR_LTO
0AC2	002BE	.WORD	2754
00000000G	002C0	.LONG	EVL\$_CTCIR_BER
0AC3	002C4	.WORD	2755
00000000G	002C6	.LONG	EVL\$_CTCIR_BEL
0320	002CA	.WORD	800
00000000G	002CC	.LONG	EVL\$_CTLIN_APR
0321	002D0	.WORD	801
00000000G	002D2	.LONG	EVL\$_CTLIN_DPS
0322	002D6	.WORD	802
00000000G	002D8	.LONG	EVL\$_CTLIN_ACL
032A	002DC	.WORD	810
00000000G	002DE	.LONG	EVL\$_CTLIN_TPR
032B	002E2	.WORD	811
00000000G	002E4	.LONG	EVL\$_CTLIN_TPS
032C	002E8	.WORD	812
00000000G	002EA	.LONG	EVL\$_CTLIN_TCL
0334	002EE	.WORD	820
00000000G	002F0	.LONG	EVL\$_CTLIN_LDN
0335	002F4	.WORD	821
00000000G	002F6	.LONG	EVL\$_CTLIN_IFL
03E8	002FA	.WORD	1000
00000000G	002FC	.LONG	EVL\$_CTLIN_BRC
03E9	00300	.WORD	1001
00000000G	00302	.LONG	EVL\$_CTLIN_BSN
03EA	00306	.WORD	1002
00000000G	00308	.LONG	EVL\$_CTLIN_MBY
03F2	0030C	.WORD	1010
00000000G	0030E	.LONG	EVL\$_CTLIN_DBR
03F3	00312	.WORD	1011
00000000G	00314	.LONG	EVL\$_CTLIN_DBS
03F4	00318	.WORD	1012
00000000G	0031A	.LONG	EVL\$_CTLIN_MBL
03F5	0031E	.WORD	1013
00000000G	00320	.LONG	EVL\$_CTLIN_BID

03F6	00324	.WORD	1014
00000000G	00326	.LONG	EVL\$ _CTLIN_BS1
03F7	0032A	.WORD	1015
00000000G	0032C	.LONG	EVL\$ _CTLIN_BSM
03FC	00330	.WORD	1020
00000000G	00332	.LONG	EVL\$ _CTLIN_DEI
03FD	00336	.WORD	1021
00000000G	00338	.LONG	EVL\$ _CTLIN_DEO
0406	0033C	.WORD	1030
00000000G	0033E	.LONG	EVL\$ _CTLIN_RRT
0407	00342	.WORD	1031
00000000G	00344	.LONG	EVL\$ _CTLIN_LRT
0410	00348	.WORD	1040
00000000G	0034A	.LONG	EVL\$ _CTLIN_RBE
0411	0034E	.WORD	1041
00000000G	00350	.LONG	EVL\$ _CTLIN_LBE
041A	00354	.WORD	1050
00000000G	00356	.LONG	EVL\$ _CTLIN_SIE
041B	0035A	.WORD	1051
00000000G	0035C	.LONG	EVL\$ _CTLIN_SLT
0424	00360	.WORD	1060
00000000G	00362	.LONG	EVL\$ _CTLIN_SFL
0425	00366	.WORD	1061
00000000G	00368	.LONG	EVL\$ _CTLIN_CDC
0426	0036C	.WORD	1062
00000000G	0036E	.LONG	EVL\$ _CTLIN_RFL
0427	00372	.WORD	1063
00000000G	00374	.LONG	EVL\$ _CTLIN_UFD
0428	00378	.WORD	1064
00000000G	0037A	.LONG	EVL\$ _CTLIN_OVR
0429	0037E	.WORD	1065
00000000G	00380	.LONG	EVL\$ _CTLIN_SBU
042A	00384	.WORD	1066
00000000G	00386	.LONG	EVL\$ _CTLIN_UBU
044C	0038A	.WORD	1100
00000000G	0038C	.LONG	EVL\$ _CTLIN_RPE
044D	00390	.WORD	1101
00000000G	00392	.LONG	EVL\$ _CTLIN_LPE
0A8D	00396	.WORD	2701
00000000G	00398	.LONG	EVL\$ _CTLIN_MBS
0A8E	0039C	.WORD	2702
00000000G	0039E	.LONG	EVL\$ _CTLIN_MSN
0ABE	003A2	.WORD	2750
00000000G	003A4	.LONG	EVL\$ _CTLIN_RME
0ABF	003A8	.WORD	2751
00000000G	003AA	.LONG	EVL\$ _CTLIN_LCE
0AC0	003AE	.WORD	2752
00000000G	003B0	.LONG	EVL\$ _CTLIN_MSE
0000	003B4	.WORD	0
00000000G	003B6	.LONG	EVL\$ _CTXP_ZER
03E8	003BA	.WORD	1000
00000000G	003BC	.LONG	EVL\$ _CTXP_BRC
03E9	003C0	.WORD	1001
00000000G	003C2	.LONG	EVL\$ _CTXP_BSN
03F2	003C6	.WORD	1010
00000000G	003C8	.LONG	EVL\$ _CTXP_BLR
03F3	003CC	.WORD	1011

21	20	74	6E	65	76	65	20	74	65	6E	43	45	44	14	00430	P.AAC:	.ASCII	<20>\DECnet event !UL.!UL\						
									4C	55	21	2E	4C	55	0043F									
									53	41	21	20	2C	05	00445	P.AAD:	.ASCII	<5>\, !AS\						
	53	41	21	20	65	64	6F	6E	20	6D	6F	72	46	0D	0044B	P.AAE:	.ASCII	<13>\From node !AS\						
								29	43	41	21	28	20	06	00459	P.AAF:	.ASCII	<6>\ (!AC)\						
									44	25	21	20	2C	05	00460	P.AAG:	.ASCII	<5>\, !XD\						
									43	41	21	20	65	6E	69	4C	08	00466						
									53	41	21	20	74	69	75	63	72	69	43	0B	0046F	P.AAH:	.ASCII	<8>\Line !AC\
																					0046F	P.AAI:	.ASCII	<11>\Circuit !AC\
																					0047B	P.AAJ:	.ASCII	<8>\Node !AS\
																					0047B	P.AAJ:	.ASCII	<8>\Node !AS\
																					00484	P.AAK:	.ASCII	<6>\ (!AC)\
																					0048B	P.AAL:	.ASCII	<8>\Area !UB\
																					00494	P.AAM:	.ASCII	<10>\Module !AC\
																					0049F	P.AAN:	.ASCII	<2>\, \

KNOWN_EVENTS= P.AAA
 KNOWN_COUNTERS= P.AAB
 .EXTRN EVLSGL LOGMASK, EVLSUNJULIAN
 .EXTRN WKQ\$ADD WORK_ITEM
 .EXTRN EVLS_NMA_LOS, EVLS_NMA_ANC
 .EXTRN EVLS_NMA_ALC, EVLS_NMA_ALS
 .EXTRN EVLS_NMA_LCZ, EVLS_NMA_NCZ
 .EXTRN EVLS_NMA_PSL, EVLS_NMA_ABS
 .EXTRN EVLS_NMA_CTR, EVLS_NMA_ZER
 .EXTRN EVLS_SCL_LNS, EVLS_SCL_ACR
 .EXTRN EVLS_NSL_IMS, EVLS_NSL_IFC

```
.EXTRN EVLS_NSL_DBR, EVLS_TPL_APL
.EXTRN EVLS_TPL_UPL, EVLS_TPL_RPL
.EXTRN EVLS_TPL_OPL, EVLS_TPL_PFM
.EXTRN EVLS_TPL_PRU, EVLS_TPL_VFR
.EXTRN EVLS_TPL_LDF, EVLS_TPL_CDS
.EXTRN EVLS_TPL_CDO, EVLS_TPL_LUP
.EXTRN EVLS_TPL_ILF, EVLS_TPL_ISF
.EXTRN EVLS_TPL_IOF, EVLS_TPL_RCH
.EXTRN EVLS_TPL_AUP, EVLS_TPL_ARJ
.EXTRN EVLS_TPL_ACH, EVLS_TPL_LDS
.EXTRN EVLS_TPL_LDO, EVLS_DLL_LSC
.EXTRN EVLS_DLL_RSC, EVLS_DLL_PRS
.EXTRN EVLS_DLL_SND, EVLS_DLL_RET
.EXTRN EVLS_DLL_SLC, EVLS_DLL_BHF
.EXTRN EVLS_DLL_SAD, EVLS_DLL_STT
.EXTRN EVLS_DLL_LBS, EVLS_DLL_RST
.EXTRN EVLS_DLL_STC, EVLS_DLL_RME
.EXTRN EVLS_DLL_IFL, EVLS_DLL_SFL
.EXTRN EVLS_DLL_RFL, EVLS_DLL_CDC
.EXTRN EVLS_DLL_DTU, EVLS_DLL_DTD
.EXTRN EVLS_PLL_DSR, EVLS_PLL_RIN
.EXTRN EVLS_PLL_CAR, EVLS_PLL_MEM
.EXTRN EVLS_PLL_COM, EVLS_PLL_PFM
.EXTRN EVLS_VMS_DBC, EVLS_VMS_DPC
.EXTRN EVLS_VMS_DP2, EVLS_VMS_PCR
.EXTRN EVLS_VMS_PTR, EVLS_CTNOO_ZER
.EXTRN EVLS_CTNOO_BRC, EVLS_CTNOO_BSN
.EXTRN EVLS_CTNOO_MRC, EVLS_CTNOO_MSN
.EXTRN EVLS_CTNOO_CRC, EVLS_CTNOO_CSN
.EXTRN EVLS_CTNOO_RTO, EVLS_CTNOO_RSE
.EXTRN EVLS_CTNOO_MLL, EVLS_CTNOO_APL
.EXTRN EVLS_CTNOO_NUL, EVLS_CTNOO_NOL
.EXTRN EVLS_CTNOO_OPL, EVLS_CTNOO_PFE
.EXTRN EVLS_CTNOO_RUL, EVLS_CTNOO_VER
.EXTRN EVLS_CTCIR_ZER, EVLS_CTCIR_APR
.EXTRN EVLS_CTCIR_DPS, EVLS_CTCIR_ACL
.EXTRN EVLS_CTCIR_CRL, EVLS_CTCIR_TPR
.EXTRN EVLS_CTCIR_TPS, EVLS_CTCIR_TCL
.EXTRN EVLS_CTCIR_LDM, EVLS_CTCIR_IFL
.EXTRN EVLS_CTCIR_BRC, EVLS_CTCIR_BSN
.EXTRN EVLS_CTCIR_MBY, EVLS_CTCIR_DBR
.EXTRN EVLS_CTCIR_DBS, EVLS_CTCIR_DEI
.EXTRN EVLS_CTCIR_DEO, EVLS_CTCIR_RRT
.EXTRN EVLS_CTCIR_LRT, EVLS_CTCIR_RBE
.EXTRN EVLS_CTCIR_LBE, EVLS_CTCIR_SIE
.EXTRN EVLS_CTCIR_SLT, EVLS_CTCIR_UBU
.EXTRN EVLS_CTCIR_RPE, EVLS_CTCIR_LPE
.EXTRN EVLS_CTCIR_LIR, EVLS_CTCIR_RIR
.EXTRN EVLS_CTCIR_NIR, EVLS_CTCIR_MNE
.EXTRN EVLS_CTCIR_ERI, EVLS_CTCIR_ERO
.EXTRN EVLS_CTCIR_RTO, EVLS_CTCIR_LTO
.EXTRN EVLS_CTCIR_BER, EVLS_CTCIR_BEL
.EXTRN EVLS_CTLIN_APR, EVLS_CTLIN_DPS
.EXTRN EVLS_CTLIN_ACL, EVLS_CTLIN_TPR
.EXTRN EVLS_CTLIN_TPS, EVLS_CTLIN_TCL
.EXTRN EVLS_CTLIN_LDN, EVLS_CTLIN_IFL
.EXTRN EVLS_CTLIN_BRC, EVLS_CTLIN_BSN
```

```
.EXTRN EVLS-CTLIN-MBY, EVLS-CTLIN-DBR
.EXTRN EVLS-CTLIN-DBS, EVLS-CTLIN-MBL
.EXTRN EVLS-CTLIN-BID, EVLS-CTLIN-BSI
.EXTRN EVLS-CTLIN-BSM, EVLS-CTLIN-DEI
.EXTRN EVLS-CTLIN-DEO, EVLS-CTLIN-RRT
.EXTRN EVLS-CTLIN-LRT, EVLS-CTLIN-RBE
.EXTRN EVLS-CTLIN-LBE, EVLS-CTLIN-SIE
.EXTRN EVLS-CTLIN-SLT, EVLS-CTLIN-SFL
.EXTRN EVLS-CTLIN-CDL, EVLS-CTLIN-RFL
.EXTRN EVLS-CTLIN-UFQ, EVLS-CTLIN-OVR
.EXTRN EVLS-CTLIN-SBU, EVLS-CTLIN-UBU
.EXTRN EVLS-CTLIN-RPE, EVLS-CTLIN-LPE
.EXTRN EVLS-CTLIN-MBS, EVLS-CTLIN-MSN
.EXTRN EVLS-CTLIN-RME, EVLS-CTLIN-LCE
.EXTRN EVLS-CTLIN-MSE, EVLS-CTXP-ZER
.EXTRN EVLS-CTXP-BRC, EVLS-CTXP-BSN
.EXTRN EVLS-CTXP-BLR, EVLS-CTXP-BLS
.EXTRN EVLS-CTXP-CRC, EVLS-CTXP-CSN
.EXTRN EVLS-CTXP-FSR, EVLS-CTXP-FSS
.EXTRN EVLS-CTXP-MSA, EVLS-CTXP-MCA
.EXTRN EVLS-CTXP-RSE, EVLS-CTXP-LIR
.EXTRN EVLS-CTXP-RIR, EVLS-CTXP-NIR
.EXTRN EVLS-CTXP-RST, EVLS-CTXS-ZER
.EXTRN EVLS-CTXS-MCA, EVLS-CTXS-ICR
.EXTRN EVLS-CTXS-LLR, SYSS$GETMSG
```

.PSECT \$CODE\$,NOWRT,2

```
.ENTRY FORMAT EVENT, Save R2,R3,R4,R5,R6,R7,R8,R9,-, 0813
R10,R11
MOVAB P.AAC, R11
MOVAB -680(SP), SP
CLRL DESC
MOVAB BUFFER, DESC+4
MNEGL #1, SHORT_FORM
MOVL EVENT, R2
EXTZV #0, #6, 2(R2), -(SP)
EXTZV #6, #9, 2(R2), -(SP)
PUSHL R11
PUSHAB DESC
CALLS #4, APPEND_STRINGS
MOVAB KNOWN_EVENTS, R3
TSTL (PTR)
BEQL 3$
CMPW 2(R2), (PTR)
BNEQ 2$
MOVZBL #128, TEXT
MOVAB TEXTBUF, TEXT+4
MOVQ #1, -(SP)
PUSHAB TEXT
PUSHAB TEXT
PUSHL 2(PTR)
CALLS #5, SYSS$GETMSG
PUSHAB TEXT
PUSHAB P.AAD
PUSHAB DESC
CALLS #3, APPEND_STRINGS
```

OFFC 00000

```
5B 0000' CF 9E 00002
5E FD58 CE 9E 00007
F0 AD D4 0000C
F4 AD 0098 CE 9E 0000F
5A 01 CE 00015
52 04 AC D0 00018
7E 06 00 EF 0001C
7E 09 06 EF 00022
00 5B DD 00028
0000V CF F0 AD 9F 0002A
53 FBDO CB 9E 0002D
63 38 D5 00037 1$:
02 A2 B1 0003B
2D 12 0003F
10 AE 80 8F 9A 00041
14 AE 18 AE 9E 00046
7E 01 7D 0004B
18 AE 9F 0004E
1C AE 9F 00051
02 A3 DD 00054
00000000G 00 05 FB 00057
10 AE 9F 0005E
15 AB 9F 00061
0000V CF F0 AD 9F 00064
03 FB 00067
```

6D

6F

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		05	11	0006C		BRB	3\$		0868
	53	06	C0	0006E	2\$:	ADDL2	#6, PTR		0859
		C4	11	00071		BRB	1\$		
	57	OC	AC	D0	00073	3\$:	MOVL	OUTPUT_ROUTINE, R7	0881
		5A	DD	00077		PUSHL	SHORT_FORM		
		FO	AD	9F	00079		PUSHAB	DESC	
	56	10	AC	D0	0007C		MOVL	OUTPUT_PARM, R6	
		56	DD	00080		PUSHL	R6		
	67		03	FB	00082		CALLS	#3, (R7)	
		FO	AD	D4	00085		CLRL	DESC	
	7E	OA	A2	3C	00088		MOVZWL	10(R2), -(SP)	0885
0000V	CF		01	FB	0008C		CALLS	#1, FORMAT_NODEADR	
			50	DC	00091		PUSHL	R0	
		1B	AB	9F	00093		PUSHAB	P.AAE	
		FO	AD	9F	00096		PUSHAB	DESC	
0000V	CF		03	FB	00099		CALLS	#3, APPEND_STRINGS	
		OC	A2	95	0009E		TSTB	12(R2)	0887
			0E	13	000A1		BEQL	4\$	
		OC	A2	9F	000A3		PUSHAB	12(R2)	0889
		29	AB	9F	000A6		PUSHAB	P.AAF	
		FO	AD	9F	000A9		PUSHAB	DESC	
0000V	CF		03	FB	000AC		CALLS	#3, APPEND_STRINGS	
08	AE	04	A2	3C	000B1	4\$:	MOVZWL	4(R2), DAYS	0891
04	AE	06	A2	3C	000B6		MOVZWL	6(R2), SECONDS	0892
	6E	08	A2	3C	000BB		MOVZWL	8(R2), MSECS	0893
		F8	AD	9F	000BF		PUSHAB	TIME	0895
		04	AE	9F	000C2		PUSHAB	MSECS	
		OC	AE	9F	000C5		PUSHAB	SECONDS	
		14	AE	9F	000C8		PUSHAB	DAYS	
0000G	CF		04	FB	000CB		CALLS	#4, EVL\$UNJULIAN	
		F8	AD	9F	000D0		PUSHAB	TIME	0897
		30	AB	9F	000D3		PUSHAB	P.AAG	
		FO	AD	9F	000D6		PUSHAB	DESC	
0000V	CF		03	FB	000D9		CALLS	#3, APPEND_STRINGS	
			5A	DD	000DE		PUSHL	SHORT_FORM	
		FO	AD	9F	000E0		PUSHAB	DESC	
			56	DD	000E3		PUSHL	R6	
	67		03	FB	000E5		CALLS	#3, (R7)	
		FO	AD	D4	000E8		CLRL	DESC	
			53	94	000EB		CLRB	COMMA_NEEDED	0900
	50	OC	A2	9A	000ED		MOVZBL	12(R2), R0	0902
OC	AE	OD	A042	9E	000F1		MOVAB	13(R0)[R2], PTR	
	54	OC	BE	9A	000F7		MOVZBL	@PTR, R4	0904
		OC	AE	D6	000FB		INCL	PTR	
	01		54	91	000FE		CMPB	R4, #1	0907
			1C	12	00101		BNEQ	5\$	
		OC	AE	DD	00103		PUSHL	PTR	0908
		36	AB	9F	00106		PUSHAB	P.AAH	
		FO	AD	9F	00109		PUSHAB	DESC	
0000V	CF		03	FB	0010C		CALLS	#3, APPEND_STRINGS	
	50	OC	BE	9A	00111		MOVZBL	@PTR, R0	0909
		OC	AE	D6	00115		INCL	PTR	
	OC		50	C0	00118		ADDL2	R0, PTR	
	53		01	90	0011C		MOVAB	#1, COMMA_NEEDED	0910
	03		54	91	0011F	5\$:	CMPB	R4, #3	0913
			1C	12	00122		BNEQ	6\$	
		OC	AE	DD	00124		PUSHL	PTR	0914

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0000V	CF	3F	AB	9F	00127	PUSHAB	P.AAI	:		
	50	FO	AD	9F	0012A	PUSHAB	DESC	:		
			03	FB	0012D	CALLS	#3, APPEND_STRINGS	:		
		OC	BE	9A	00132	MOVZBL	@PTR, R0	:	0915	
		OC	AE	D6	00136	INCL	PTR	:		
	OC		50	C0	00139	ADDL2	R0, PTR	:		75
			01	90	0013D	MOVB	#1, COMMA_NEEDED	:	0916	
			54	D5	00140	TSTL	R4	:	0919	
			3B	12	00142	BNEQ	8\$:		
	7E	OC	BE	3C	00144	MOVZWL	@PTR, -(SP)	:	0920	
0000V	CF		01	FB	00148	CALLS	#1, FORMAT_NODEADR	:		61
			50	DD	0014D	PUSHL	R0	:		6C
		4B	AB	9F	0014F	PUSHAB	P.AAJ	:		
		FO	AD	9F	00152	PUSHAB	DESC	:		
0000V	CF		03	FB	00155	CALLS	#3, APPEND_STRINGS	:		72
	OC		02	C0	0015A	ADDL2	#2, PTR	:	0921	
		OC	BE	95	0015E	TSTB	@PTR	:	0922	
			0E	13	00161	BEQL	7\$	:		6F
		OC	AE	DD	00163	PUSHL	PTR	:	0924	
		54	AB	9F	00166	PUSHAB	P.AAK	:		
		FO	AD	9F	00169	PUSHAB	DESC	:		
0000V	CF		03	FB	0016C	CALLS	#3, APPEND_STRINGS	:		
	50	OC	BE	9A	00171	MOVZBL	@PTR, R0	:	0925	
		OC	AE	D6	00175	INCL	PTR	:		
	OC		50	C0	00178	ADDL2	R0, PTR	:		64
			01	90	0017C	MOVB	#1, COMMA_NEEDED	:	0926	
			54	91	0017F	CMPB	R4, #5	:	0929	
			15	12	00182	BNEQ	9\$	:		65
	7E	OC	BE	9A	00184	MOVZBL	@PTR, -(SP)	:	0930	
		5B	AB	9F	00188	PUSHAB	P.AAL	:		
		FO	AD	9F	0018B	PUSHAB	DESC	:		74
0000V	CF		03	FB	0018E	CALLS	#3, APPEND_STRINGS	:		
		OC	AE	D6	00193	INCL	PTR	:	0931	65
			01	90	00196	MOVB	#1, COMMA_NEEDED	:	0932	
			54	91	00199	CMPB	R4, #4	:	0935	
			1C	12	0019C	BNEQ	10\$:		
		OC	AE	DD	0019E	PUSHL	PTR	:	0936	61
		64	AB	9F	001A1	PUSHAB	P.AAM	:		
		FO	AD	9F	001A4	PUSHAB	DESC	:		
0000V	CF		03	FB	001A7	CALLS	#3, APPEND_STRINGS	:		69
	50	OC	BE	9A	001AC	MOVZBL	@PTR, R0	:	0937	
		OC	AE	D6	001B0	INCL	PTR	:		
	OC		50	C0	001B3	ADDL2	R0, PTR	:		
			01	90	001B7	MOVB	#1, COMMA_NEEDED	:	0938	
		FO	AD	D0	001BA	MOVL	DESC, R5	:	0948	
		08	AC	C1	001BE	ADDL3	EVENT_LENGTH, R2, R8	:	0942	
		OC	AE	D1	001C3	CMPL	PTR, R8	:		
			7A	1E	001C7	BGEQU	18\$:		
			55	D1	001C9	CMPL	R5, #45	:	0948	
	2D		0F	15	001CC	BLEQ	12\$:		
			5A	DD	001CE	PUSHL	SHORT_FORM	:	0950	
		FO	AD	9F	001D0	PUSHAB	DESC	:		20
			56	DD	001D3	PUSHL	R6	:		
	67		03	FB	001D5	CALLS	#3, (R7)	:		
		FO	AD	D4	001D8	CLRL	DESC	:		73
			53	94	001DB	CLRB	COMMA_NEEDED	:	0952	
		FO	AD	D0	001DD	MOVL	DESC, -STARTLEN	:	0955	72

	0D		53	E9	001E1	BLBC	COMMA_NEEDED, 13\$	:	0957	
		6F	AB	9F	001E4	PUSHAB	P.AAN	:	0960	
		FO	AD	9F	001E7	PUSHAB	DESC	:		
	J00V	CF	02	FB	001EA	CALLS	#2, APPEND STRINGS	:		
			53	94	001EF	CLRB	COMMA_NEEDED	:	0961	
	54	58	OC	AE	C3 001F1	SUBL3	PTR, R8, R4	:	0975	
			OC	BE	B5 001F6	TSTW	@PTR	:	0964	
			27	18	001F9	BGEQ	16\$	:		63
			5A	D5	001FB	TSTL	SHORT_FORM	:	0967	20
			05	18	001FD	BGEQ	14\$:		
	5A		59	D0	001FF	MOVL	STARTLEN, SHORT_FORM	:	0969	
			02	11	00202	BRB	15\$:		
			5A	D4	00204	CLRL	SHORT_FORM	:	0972	20
			5A	DD	00206	PUSHL	SHORT_FORM	:		
			FO	AD	9F 00208	PUSHAB	DESC	:		69
			56	DD	0020B	PUSHL	R6	:		73
	67		03	FB	0020D	CALLS	#3, (R7)	:		
			FO	AD	D4 00210	CLRL	DESC	:		
			54	DD	00213	PUSHL	R4	:	0975	20
			10	AE	9F 00215	PUSHAB	PTR	:	0974	
			FO	AD	9F 00218	PUSHAB	DESC	:		20
	0000V	CF	03	FB	0021B	CALLS	#3, FORMAT_COUNTER	:		
			13	11	00220	BRB	17\$	:	0964	
	7E	02	A2	09	06	EF 00222	EXTZV	#6, #9, 2(R2), -(SP)	:	0980
				54	DD 00228	PUSHL	R4	:	0979	
			14	AE	9F 0022A	PUSHAB	PTR	:	0978	69
			FO	AD	9F 0022D	PUSHAB	DESC	:		
	0000V	CF	04	FB	00230	CALLS	#4, FORMAT_PARAMETER	:		
			FO	AD	D0 00235	MOVL	DESC, R5	:	0982	
		55	59	D1	00239	CMPL	STARTLEN, R5	:		
			85	13	0023C	BEQL	11\$:		
		53	01	90	0023E	MOVB	#1, COMMA_NEEDED	:	0984	63
			80	11	00241	BRB	11\$	:	0942	
			FO	AD	D5 00243	TSTL	DESC	:	0987	
			UD	15	00246	BLEQ	19\$	:		65
			5A	DD	00248	PUSHL	SHORT_FORM	:	0988	72
			FO	AD	9F 0024A	PUSHAB	DESC	:		20
			56	DD	0024D	PUSHL	R6	:		
	67		03	FB	0024F	CALLS	#3, (R7)	:		
			FO	AD	D4 00252	CLRL	DESC	:		72
			5A	DD	00255	PUSHL	SHORT_FORM	:	0989	
			FO	AD	9F 00257	PUSHAB	DESC	:		
			56	DD	0025A	PUSHL	R6	:		
	67		03	FB	0025C	CALLS	#3, (R7)	:		
			FO	AD	D4 0025F	CLRL	DESC	:		20
			04	00262	RET			:	0993	20

; Routine Size: 611 bytes, Routine Base: \$CODE\$ + 0000

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```

589 0994 1 ROUTINE append_strings (result, string, args): NOVALUE =
590 0995 1
591 0996 1 ----
592 0997 1
593 0998 1 Functional description
594 0999 1
595 1000 1 This routine appends an FAO result string to another
596 1001 1 string. The second argument is used as an FAO control
597 1002 1 string with the following arguments used as parameters.
598 1003 1 The result of the FAO operation is appended to the end
599 1004 1 of the string described by the first operand and the
600 1005 1 descriptor is updated.
601 1006 1
602 1007 1 Input parameters
603 1008 1
604 1009 1 result = Address of descriptor of string to be appended
605 1010 1 string = FAO control string (counted string)
606 1011 1 args = 0 to n FAO arguments
607 1012 1
608 1013 1 Output parameters
609 1014 1
610 1015 1 result = Updated descriptor of appended string
611 1016 1
612 1017 1 ----
613 1018 1
614 1019 2 BEGIN
615 1020 2
616 1021 2 MAP
617 1022 2 string: REF VECTOR [,BYTE], ! Address the counted string
618 1023 2 result: REF VECTOR; ! Address the descriptor
619 1024 2
620 1025 2 LOCAL
621 1026 2 faodesc: VECTOR [2], ! FAO control string descriptor
622 1027 2 desc: VECTOR [2]; ! FAO result string descriptor
623 1028 2
624 1029 2 faodesc [0] = .string [0]; ! Get length of counted string
625 1030 2 faodesc [1] = string [1];
626 1031 2
627 1032 2 desc [0] = max_output - .result [0]; ! Setup descriptor for FAO
628 1033 2 desc [1] = .result [1] + .result [0];
629 1034 2
630 P 1035 2 $FAOL(CTRSTR=faodesc, ! Insert string into buffer
631 P 1036 2 OUTLEN=desc,
632 P 1037 2 OUTBUF=desc,
633 1038 2 PRMLST=args);
634 1039 2
635 1040 2 result [0] = .result [0] + .desc [0]; ! Update string length
636 1041 2
637 1042 1 END;

```

.EXTRN SYSS\$FAOL

0004 00000 APPEND_STRINGS.

SE

OC C2 00002

.WORD save R2
SUBL2 #12, SP

; 0994
;

CONSOLE
V04-000

D 15
16-Sep-1984 01:31:10
14-Sep-1984 12:28:46

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EVL.SRC]CONSOLE.B32;1

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(4)

08	AE	04	AE	08	BC	9A	00005	MOVZBL	@STRING, FAODESC	:	1029
		08	AC		01	C1	0000A	ADDL3	#1, STRING, FAODESC+4	:	1030
			52	04	AC	D0	00010	MOVL	RESULT, R2	:	1032
	7E	00000200	8F		62	C3	00014	SUBL3	(R2), #512, DESC	:	
04	AE	04	A2		62	C1	0001C	ADDL3	(R2), 4(R2), DESC+4	:	1033
				0C	AC	9F	00022	PUSHAB	ARGS	:	1038
				04	AE	9F	00025	PUSHAB	DESC	:	
				08	AE	9F	00028	PUSHAB	DESC	:	
				14	AE	9F	0002B	PUSHAB	FAODESC	:	
	00000000G	00			04	FB	0002E	CALLS	#4, SYSSFAOL	:	
		62			6E	C0	00035	ADDL2	DESC, (R2)	:	1040
					04	00038		RET		:	1042

; Routine Size: 57 bytes, Routine Base: \$CODE\$ + 0263

CON
V04

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639 1043 1 ROUTINE format_parameter (string, param, maxlen, class): NOVALUE =
640 1044 1
641 1045 1 ---
642 1046 1
643 1047 1     Format a NICE parameter and append the
644 1048 1     descriptive text to a given string.
645 1049 1
646 1050 1     Inputs:
647 1051 1
648 1052 1     param = Address of longword containing pointer to parameter
649 1053 1     string = Address of descriptor of existing string
650 1054 1     maxlen = Maximum length that the parameter may be
651 1055 1     class = Event class
652 1056 1
653 1057 1     Outputs:
654 1058 1
655 1059 1     ptr = Address of longword pointing to location following parameter
656 1060 1 ---
657 1061 1
658 1062 2 BEGIN
659 1063 2
660 1064 2 BIND
661 1065 2     desc = .string: VECTOR;      ! Address of string descriptor
662 1066 2
663 1067 2 LOCAL
664 1068 2     ptr:          REF $BBLOCK,    ! Address of parameter
665 1069 2     param_type,   ! Parameter type (specific to class)
666 1070 2     nextptr:     REF $BBLOCK,    ! Pointer to next parameter
667 1071 2     fields,      ! # fields in parameter
668 1072 2     byte1:        BYTE,           ! First data byte after data type
669 1073 2     byte2:        SIGNED BYTE;    ! Second data byte after data type
670 1074 2
671 1075 2 MACRO
672 1076 2     choose(index) =
673 1077 2         CASE index FROM 0 TO %LENGTH-2
674 1078 2         OF
675 1079 2             SET
676 1080 2             choose_item(%REMAINING);
677 1081 2             TES%
678 1082 2     choose_item [string] =
679 1083 2         [%COUNT]: append('!AC',UPLIT BYTE(%ASCII string))%;
680 1084 2
681 1085 2     ptr = ..param;                ! Get address of parameter
682 1086 2     param_type = .ptr [0,0,11,0]; ! Get parameter type code
683 1087 2     nextptr = .ptr+2;              ! Assume first field follows
684 1088 2     IF .nextptr [0,7,1,0]          ! If coded
685 1089 2         AND .nextptr [0,6,1,0]    ! and multiple number of fields,
686 1090 2     THEN
687 1091 2         BEGIN
688 1092 2             fields = .nextptr [0,0,6,0]; ! Get # fields in parameter
689 1093 2             nextptr = .nextptr + 1;      ! and skip to actual first data item
690 1094 2         END
691 1095 2     ELSE
692 1096 2         fields = 1;                ! Else, indicate only one field
693 1097 2
694 1098 2     INCR i FROM 1 TO .fields        ! For each field
695 1099 2     DO

```

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```
696 1100 2 IF .nextptr [0,7,1,0] ! If coded
697 1101 2 THEN
698 1102 2 .nextptr = .nextptr + 1 + .nextptr [0,0,6,0] ! Use # coded bytes
699 1103 2 ELSE
700 1104 2 IF .nextptr [0,6,1,0] ! If ASCII image field
701 1105 2 OR .nextptr [0,0,4,0] EQL 0 ! If zero, hex image field
702 1106 2 THEN
703 1107 2 nextptr = .nextptr + 2 + CH$RCHAR(.nextptr+1) ! Use ASCII length
704 1108 2 ELSE
705 1109 2 nextptr = .nextptr + 1 + .nextptr [0,0,4,0]; ! Else, use binary data length
706 1110 2
707 1111 2 byte1 = CH$RCHAR(.ptr+3); ! Get first data byte
708 1112 2 byte2 = CH$RCHAR(.ptr+4); ! and second data byte
709 1113 2 SELECTONEU .class ! For each layer,
710 1114 2 OF
711 1115 2 SET
712 1116 2
713 1117 2 [evc$c_cls_nma]: ! Network management layer
714 1118 2 SELECTONEU .param_type ! Case on parameter type
715 1119 2 OF
716 1120 2 SET
717 1121 2 [evc$c_nma_pser]: choose(.byte1, 'Load', 'Dump');
718 1122 2 [evc$c_nma_psts]:
719 1123 2 BEGIN
720 1124 2 choose(IF .byte2 EQL 0 THEN 0
721 1125 2 ELSE IF .byte2 LSS 0 THEN 1 ELSE 2,
722 1126 2 'Requested', '', 'Successful');
723 1127 2
724 1128 2 IF .byte2 LSS 0
725 1129 2 THEN
726 1130 2 choose(-.byte2-1,
727 1131 2 'Unrecognized function or option',
728 1132 2 'Invalid message format',
729 1133 2 'Privilege violation',
730 1134 2 'Oversized command message',
731 1135 2 'Management program error',
732 1136 2 'Unrecognized parameter type',
733 1137 2 'Incompatible management version',
734 1138 2 'Unrecognized component',
735 1139 2 'Invalid identification',
736 1140 2 'Line communication error',
737 1141 2 'Component in wrong state',
738 1142 2 'File open error',
739 1143 2 'Invalid file contents',
740 1144 2 'Resource error',
741 1145 2 'Invalid parameter value',
742 1146 2 'Line protocol error',
743 1147 2 'File I/O error',
744 1148 2 'Mirror link disconnected',
745 1149 2 'No room for new entry',
746 1150 2 'Mirror connect failed',
747 1151 2 'Parameter not applicable',
748 1152 2 'Parameter value too long',
749 1153 2 'Hardware failure',
750 1154 2 'Operation failure',
751 1155 2 'Function not supported',
752 1156 2 'Invalid parameter grouping',
```

```

      'Bad loopback response',
      'Parameter missing');
IF .fields GEQ 2      ! If NICE detail specified,
THEN
  SELECTONE .byte2    ! Then for certain errors,
  OF
    SET
    [nma$c_sts_fop]: (append(' ');
    choose(CH$RCHAR(.ptr+6), ! Expand on FOP detail
      'Permanent database',
      'Load file',
      'Dump file',
      'Secondary loader',
      'Tertiary loader',
      'Secondary dumper'));
    [nma$c_sts_cmp,nma$c_sts_ide,nma$c_sts_sta]:
    (append(' ');
    choose(CH$RCHAR(.ptr+6), ! Show entity name
      'Node',
      'Line',
      'Logging',
      'Circuit',
      'Module',
      'Area'));
    [nma$c_sts_pty,nma$c_sts_pva,nma$c_sts_pms]:
    (append(' ');
    CASE .(.ptr+6)<0,16> ! Show NODE parameter
    FROM nma$c_pcno_loa TO nma$c_pcno_tlo
    OF
      SET
      [nma$c_pcno_loa]: append('Load file');
      [nma$c_pcno_slo]: append('Secondary loader');
      [nma$c_pcno_tlo]: append('Tertiary loader');
      TES);
    TES;
  IF .fields GEQ 3      ! If optional message text,
    AND CH$RCHAR(.ptr+9) NEQ 0 ! and its non-null,
  THEN
    append('!/:AC',.ptr+9);    ! print it
  END;
[evc$c_nma_popr]: (append('Operation ');
  choose(.byte1, 'Initiated', 'Terminated'));
[evc$c_nma_prsn]:
  choose(.byte1,
    'Receive timeout',
    'Receive error',
    'Line state change by higher level',
    'Unrecognized request',
    'Line open error');
[evc$c_nma_pnod]: (append('Node = !AS',
  format_nodeadr(.ptr [4,0,16,0]));
  IF .fields GTR 1
    AND CH$RCHAR(.ptr+7) NEQ 0
  THEN append(' (!AC',.ptr+7));
[evc$c_nma_pdte]: append('DTE = !AC',.ptr+3);
[evc$c_nma_pfil]: append('File = !AC',.ptr+3);

```

```

753 P 1157 3
754 1158 3
755 1159 3
756 1160 3
757 1161 3
758 1162 3
759 1163 3
760 1164 4
761 P 1165 4
762 P 1166 4
763 P 1167 4
764 P 1168 4
765 P 1169 4
766 P 1170 4
767 1171 3
768 1172 3
769 1173 4
770 P 1174 4
771 P 1175 4
772 P 1176 4
773 P 1177 4
774 P 1178 4
775 P 1179 4
776 1180 3
777 1181 3
778 1182 4
779 1183 4
780 1184 4
781 1185 4
782 1186 4
783 1187 4
784 1188 4
785 1189 4
786 1190 3
787 1191 3
788 1192 3
789 1193 3
790 1194 3
791 1195 3
792 1196 3
793 1197 2
794 1198 3
795 1199 2
796 1200 2
797 P 1201 2
798 P 1202 2
799 P 1203 2
800 P 1204 2
801 P 1205 2
802 1206 2
803 P 1207 3
804 1208 3
805 1209 3
806 1210 3
807 1211 2
808 1212 2
809 1213 2

```

```

810      1214      2      [evc$sc_nma_psty]:
811      1215      2      choose(.byte1,
812      1216      2      'Secondary loader',
813      1217      2      'Tertiary loader',
814      1218      2      'Operating system');
815      1219      2
816      1220      2      [evc$sc_nma_psn]:      ! Target's Ethernet address
817      1221      2      BEGIN
818      1222      2      append ('Ethernet address = !XB', .(.ptr+4)<0,8>);
819      1223      2      INCR p FROM 1 TO 5 DO
820      1224      2      append ('-!XB', .(.ptr+4+.p)<0,8>);
821      1225      2      END;
822      1226      2
823      1227      2      [9]: append('DTE = !AC', .ptr+3);      !! && temporary until PSI gets fixed
824      1228      2
825      1229      2      [OTHERWISE]: unknown_parameter(desc, .ptr, .maxlen);
826      1230      2      TES;
827      1231      2
828      1232      2      [evc$sc_cls_scl]:      ! Session control layer
829      1233      2      SELECT .param_type
830      1234      2      OF
831      1235      2      SET
832      1236      2      [evc$sc_scl_prsn]:
833      1237      2      choose(.byte1, 'Operator command', 'Normal operation');
834      1238      2      [evc$sc_scl_pold]: append('Old state = ');
835      1239      2      [evc$sc_scl_pnew]: append('New state = ');
836      1240      2      [evc$sc_scl_pold, evc$sc_scl_pnew]:
837      1241      2      choose(.byte1, 'On', 'Off', 'Shut', 'Restricted');
838      1242      2      [evc$sc_scl_pnod]: (append('Source node = !AS',
839      1243      2      format_nodeadr(.ptr [4,0,16,0]));
840      1244      2      IF .fields GTR 1
841      1245      2      AND CH$RCHAR(.ptr+7) NEQ 0
842      1246      2      THEN append(' (!AC)', .ptr+7));
843      1247      2      [evc$sc_scl_pspc]: append('Source process = ');
844      1248      2      [evc$sc_scl_pdpc]: append('Destination process = ');
845      1249      2      [evc$sc_scl_pspc, evc$sc_scl_pdpc]:
846      1250      2      (append('!UL', CH$RCHAR(.ptr+4));
847      1251      2      IF .fields GTR 3
848      1252      2      THEN append(' (!AC)', .ptr+10));
849      1253      2      [evc$sc_scl_pusr]: append('User = !AC', .ptr+3);
850      1254      2      [evc$sc_scl_ppsw]: append('Password');
851      1255      2      [evc$sc_scl_pacc]: append('Account = !AC', .ptr+3);
852      1256      2      [OTHERWISE]: unknown_parameter(desc, .ptr, .maxlen);
853      1257      2      TES;
854      1258      2
855      1259      2      [evc$sc_cls_nsl]:      ! Network services layer
856      1260      2      SELECT ONEU .param_type
857      1261      2      OF
858      1262      2      SET
859      1263      2      [evc$sc_nsl_pmsg]:
860      1264      2      (append('Message = ');
861      1265      2      unknown_param_data(desc, .ptr+2, .maxlen));
862      1266      2      [evc$sc_nsl_pflo]: append('Current flow control = !SB', .byte1);
863      1267      2      [evc$sc_nsl_pnod]: (append('Source node = !AS',
864      1268      2      format_nodeadr(.ptr [4,0,16,0]));
865      1269      2      IF .fields GTR 1
866      1270      2      AND CH$RCHAR(.ptr+7) NEQ 0

```

```
      THEN append(' (!AC)', .ptr+7));
[OTHERWISE]: unknown_parameter(desc, .ptr, .maxlen);
TES;

[evc$c_cls_tpl]:      ! Transport layer
  SE[ECTO] .param_type
  OF
    SET
    [evc$c_tpl_ppkh]:
      (append('Packet header = ');
      unknown_param_data(desc, .ptr+2, .maxlen));
    [evc$c_tpl_ppkb]:
      (append('Packet beginning = ');
      unknown_param_data(desc, .ptr+2, .maxlen));
    [evc$c_tpl_phia]: append('Highest address = !UL', .ptr [3,0,16,0]);
    [evc$c_tpl_pnod]: append('Node = ');
    [evc$c_tpl_padj]: append('Adjacent node = ');
    [evc$c_tpl_pexp]: append('Expected node = ');
    [evc$c_tpl_pnod, evc$c_tpl_pexp, evc$c_tpl_padj]:
      (append('!AS', format_nodeadr(.ptr [4,0,16,0]));
      IF .fields GTR 1
      AND CH$RCHAR(.ptr+7) NEQ 0
      THEN append(' (!AC)', .ptr+7));
    [evc$c_tpl_prsn]:
      choose(.byte1,
        'Line synchronization lost',
        'Data errors',
        'Unexpected packet type',
        'Routing update checksum error',
        'Adjacent node address change',
        'Verification receive timeout',
        'Version skew',
        'Adjacent node address out of range',
        'Adjacent node block size too small',
        'Invalid verification seed value',
        'Adjacent node listener receive timeout',
        'Adjacent node listener received invalid data',
        'Call failed',
        'Verification password required from Phase III node',
        'Dropped by adjacent node');
    [evc$c_tpl_pvr]: append('Received version = !UL.!UL.!UL',
      CH$RCHAR(.ptr+4),
      CH$RCHAR(.ptr+6),
      CH$RCHAR(.ptr+8));
    [evc$c_tpl_psts]: (
      choose(.byte1, 'Reachable', 'Unreachable'));
    [OTHERWISE]: unknown_parameter(desc, .ptr, .maxlen);
    TES;

[evc$c_cls_dll]:      ! Data link layer
  SE[ECTO] .param_type
  OF
    SET
    [evc$c_dll_pold]: append('Old state = ');
    [evc$c_dll_pnew]: append('New state = ');
    [evc$c_dll_pold, evc$c_dll_pnew]:
      choose(.byte1, 'Halted', 'ISTRT', 'ASTRT', 'Running',
```

```
867 1271 2
868 1272 2
869 1273 2
870 1274 2
871 1275 2
872 1276 2
873 1277 2
874 1278 2
875 1279 2
876 1280 2
877 1281 2
878 1282 2
879 1283 2
880 1284 2
881 1285 2
882 1286 2
883 1287 2
884 1288 2
885 1289 2
886 1290 2
887 1291 2
888 1292 2
889 1293 2
890 1294 2
891 P 1295 2
892 P 1296 2
893 P 1297 2
894 P 1298 2
895 P 1299 2
896 P 1300 2
897 P 1301 2
898 P 1302 2
899 P 1303 2
900 P 1304 2
901 P 1305 2
902 P 1306 2
903 P 1307 2
904 P 1308 2
905 P 1309 2
906 1310 2
907 P 1311 2
908 P 1312 2
909 P 1313 2
910 1314 2
911 1315 2
912 1316 2
913 1317 2
914 1318 2
915 1319 2
916 1320 2
917 1321 2
918 1322 2
919 1323 2
920 1324 2
921 1325 2
922 1326 2
923 P 1327 2
```



```

924 1328
925 1329
926 1330
927 1331
928 1332
929 1333
930 1334
931 1335
932 1336
933 1337
934 1338
935 1339
936 1340
937 1341
938 1342
939 1343
940 1344
941 1345
942 1346
943 1347
944 1348
945 1349
946 1350
947 1351
948 1352
949 1353
950 1354
951 1355
952 1356
953 1357
954 1358
955 1359
956 1360
957 1361
958 1362
959 1363
960 1364
961 1365
962 1366
963 1367
964 1368
965 1369
966 1370
967 1371
968 1372
969 1373
970 1374
971 1375
972 1376
973 1377
974 1378
975 1379
976 1380
977 1381
978 1382
979 1383
980 1384

```

```

'Maintenance');
[evc$dll_phdr]:
  (append('Header = ');
  unknown_param_data(desc, .ptr+2, .maxlen));
[evc$dll_pslt]: append('Selected tributary = !UL', .byte1);
[evc$dll_ppvt]: append('Previous tributary = !UL', .byte1);
[evc$dll_ptst]: (append('Tributary status = ');
  choose(.byte1,
    'Streaming',
    'Continued send after timeout',
    'Continued send after deselect',
    'Ended streaming'));
[evc$dll_prtb]: append('Received tributary = !UL', .byte1);
[evc$dll_pbkl]: append('Block length = !UL', .ptr [3,0,16,0]);
[evc$dll_pblf]: append('Buffer length = !UL', .ptr [3,0,16,0]);
[evc$dll_pdte]: append('DTE = !AC', .ptr+3);
[evc$dll_prsn]: (append('Reason = ');
  choose(.byte1,
    'Operator command',
    'Normal operation'));
[evc$dll_post]: append('Old state = ');
[evc$dll_pnst]: append('New state = ');
[evc$dll_post, evc$dll_pnst]:
  choose(.byte1, 'On', 'Off', 'Shut');
[evc$dll_ptyp]: append('Parameter type = !UL', .ptr [3,0,16,0]);
[evc$dll_pcau]: append('Cause = !UL', .byte1);
[evc$dll_pdia]: append('Diagnostic = !UL', .byte1);
[evc$dll_pfrs]: (append('Failure reason = ');
  choose(.byte1,
    'Excessive collisions',
    'Carrier check failed',
    'Short circuit',
    'Open circuit',
    'Frame too long',
    'Remote failure to defer',
    'Block check error',
    'Framing error',
    'Data overrun',
    'System buffer unavailable',
    'User buffer unavailable',
    'Unrecognized frame destination'));
[evc$dll_pdis]: append('Distance = !UL', .ptr [3,0,16,0]);
[evc$dll_pehd]: (append('Ethernet header = ');
  unknown_param_data(desc, .ptr+2, .maxlen));
[evc$dll_phws]: (append('Hardware status = ');
  unknown_param_data(desc, .ptr+2, .maxlen));

[OTHERWISE]: unknown_parameter(desc, .ptr, .maxlen);
TES;

[evc$cls_pll]: ! Physical link layer
SELECT .param_type
OF
SET
[evc$pll_pdvr]: append('Device register = !XW', .ptr [3,0,16,0]);
[evc$pll_pnew]: (append('New state = ');

```

```

981      1385      2      choose(.byte1,'Off', 'On'));
982      1386      2      [OTHERWISE]: unknown_parameter(desc, .ptr, .maxlen);
983      1387      2      TES;
984      1388      2
985      1389      2      [69,225,226]:      ! DECnet/SNA Gateway (69) specific events
986      1390      2      ! and Server Base (225) specific events
987      1391      2      ! and Router Server (226) specific events
988      1392      2      ! (All parameters are text)
989      1393      2      unknown_param_data(desc, .ptr+2, .maxlen);
990      1394      2
991      1395      2      [evc$c_cls_vms]:      ! VMS specific events
992      1396      2      SELECT .param_type
993      1397      2      OF
994      1398      2      SET
995      1399      3      [evc$c_vms_pncd]: (append('Remote node ');
996      1400      3      IF CH$RCHAR(.ptr+3) EQL 0      ! 0=address, else name
997      1401      3      THEN
998      1402      3      append('!AS', format_nodeadr(.ptr [4,0,16,0]))
999      1403      3      ELSE
1000     1404     2      append('!AC', .ptr+3));
1001     1405     2      [evc$c_vms_pprc]: append('Name = !AC', .ptr+3);
1002     1406     2      [evc$c_vms_ppid]: append('PID = !XL', .ptr [3,0,32,0]);
1003     1407     2      [evc$c_vms_psts]: append('Status = !XL', .ptr [3,0,32,0]);
1004     1408     2      [OTHERWISE]: unknown_parameter(desc, .ptr, .maxlen);
1005     1409     2      TES;
1006     1410     2
1007     1411     2      [OTHERWISE]: unknown_parameter(desc, .ptr, .maxlen);
1008     1412     2      -ES;
1009     1413     2
1010     1414     2      .param = .nextptr;      ! Skip to next parameter
1011     1415     2
1012     1416     1      END;

```

											.PSECT		\$SPLITS, NOWRT, NOEXE, 2					
											43	41	21	03	004A2	P.AAO:	.ASCII	<3>\!AC\
										64	61	6F	4C	04	004A6	P.AAP:	.ASCII	<4>\Load\
											43	41	21	03	004AB	P.AAQ:	.ASCII	<3>\!AC\
										70	6D	75	44	04	004AF	P.AAR:	.ASCII	<4>\Dump\
											43	41	21	03	004B4	P.AAS:	.ASCII	<3>\!AC\
				64	65	74	73	65	75		71	65	52	09	004B8	P.AAT:	.ASCII	<9>\Requested\
											43	41	21	03	004C2	P.AAU:	.ASCII	<3>\!AC\
														00	004C6	P.AAV:	.ASCII	<0>
											43	41	21	03	004C7	P.AAW:	.ASCII	<3>\!AC\
				6C	75	66	73	73	65	63	63	75	53	0A	004CB	P.AAX:	.ASCII	<10>\Successful\
											43	41	21	03	004D6	P.AAY:	.ASCII	<3>\!AC\
66	20	64	65	7A	69	6E	67	6F	63	65	72	6E	55	1F	004DA	P.AAZ:	.ASCII	<31>\Unrecognized function or option\
69	74	70	6F	20	72	6F	20	6E	6F	69	74	63	6E	75	004E9			
													6E	6F	004F8			
											43	41	21	03	004FA	P.ABA:	.ASCII	<3>\!AC\
67	61	73	73	65	6D	20	64	69	6C	61	76	6E	49	16	004FE	P.ABB:	.ASCII	<22>\Invalid message format\
							74	61	6D	72	6F	66	20	65	0050D			
											43	41	21	03	00515	P.ABC:	.ASCII	<3>\!AC\
6C	6F	69	76	20	65	67	65	6C	69	76	69	72	50	13	00519	P.ABD:	.ASCII	<19>\Privilege violation\
										6E	6F	69	74	61	00528			

CONSOLE
V04-000

L 15
16-Sep-1984 01:31:10
14-Sep-1984 12:28:46

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EVL.SRC]CONSOLE.B32;1

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(5)

6D	6D	6F	63	20	64	65	7A	69	73	72	43	41	21	03	0052D	P.ABE:	.ASCII	<3>\!AC\	:
				65	67	61	73	73	65	6D	65	76	4F	19	00531	P.ABF:	.ASCII	<25>\Oversized command message\	:
6F	72	70	20	74	6E	65	6D	65	67	61	43	41	21	03	00540				:
					72	6F	72	72	65	20	6E	61	4D	18	0054B	P.ABG:	.ASCII	<3>\!AC\	:
											6D	61	72	67	0054F	P.ABH:	.ASCII	<24>\Management program error\	:
70	20	64	65	7A	69	6E	67	6F	63	65	43	41	21	03	0055E				:
		65	70	79	74	20	72	65	74	65	72	6E	55	1B	00568	P.ABI:	.ASCII	<3>\!AC\	:
											6D	61	72	61	0056C	P.ABJ:	.ASCII	<27>\Unrecognized parameter type\	:
6D	20	65	6C	62	69	74	61	70	6D	6F	43	41	21	03	0057B				:
69	73	72	65	76	20	74	6E	65	6D	65	63	6E	49	1F	00588	P.ABK:	.ASCII	<3>\!AC\	:
											67	61	6E	61	0058C	P.ABL:	.ASCII	<31>\Incompatible management version\	:
											6E	6F	6E	6F	0059B				:
											43	41	21	03	005AA				:
63	20	64	65	7A	69	6E	67	6F	63	65	72	6E	55	16	005AC	P.ABM:	.ASCII	<3>\!AC\	:
							74	6E	65	6E	6F	70	6D	6F	00580	P.ABN:	.ASCII	<22>\Unrecognized component\	:
											43	41	21	03	005BF				:
69	74	6E	65	64	69	20	64	69	6C	61	76	6E	49	16	005C7	P.ABO:	.ASCII	<3>\!AC\	:
							6E	6F	69	74	61	63	69	66	005CB	P.ABP:	.ASCII	<22>\Invalid identification\	:
											43	41	21	03	005DA				:
61	63	69	6E	75	6D	6D	6F	63	20	65	6E	69	4C	18	005E2	P.ABQ:	.ASCII	<3>\!AC\	:
					72	6F	72	72	65	20	6E	6F	69	74	005E6	P.ABR:	.ASCII	<24>\Line communication error\	:
											43	41	21	03	C05F5				:
77	20	6E	69	20	74	6E	65	6E	6F	70	6D	6F	43	18	005FF	P.ABS:	.ASCII	<3>\!AC\	:
					65	74	61	74	73	20	67	6E	6F	72	00603	P.ABT:	.ASCII	<24>\Component in wrong state\	:
											43	41	21	03	00612				:
											43	41	21	03	0061C	P.ABU:	.ASCII	<3>\!AC\	:
											43	41	21	03	00620	P.ABV:	.ASCII	<0>	:
6F	72	72	65	20	6E	65	70	6F	20	65	6C	69	46	0F	00621	P.ABW:	.ASCII	<3>\!AC\	:
														72	00625	P.ABX:	.ASCII	<15>\File open error\	:
															00634				:
63	20	65	6C	69	66	20	64	69	6C	61	76	6E	49	15	00635	P.ABY:	.ASCII	<3>\!AC\	:
							73	74	6E	65	74	6E	6F	6F	00639	P.ABZ:	.ASCII	<21>\Invalid file contents\	:
											43	41	21	03	00648				:
72	6F	72	72	65	20	65	63	72	75	6F	73	65	52	0E	0064F	P.ACA:	.ASCII	<3>\!AC\	:
											43	41	21	03	00653	P.ACB:	.ASCII	<14>\Resource error\	:
65	6D	61	72	61	70	20	64	69	6C	61	76	6E	49	17	00662	P.ACC:	.ASCII	<3>\!AC\	:
					65	75	6C	61	76	20	72	65	74	74	00666	P.ACD:	.ASCII	<23>\Invalid parameter value\	:
											43	41	21	03	00675				:
20	6C	6F	63	6F	74	6F	72	70	20	65	6E	69	4C	13	0067E	P.ACE:	.ASCII	<3>\!AC\	:
										72	6F	72	72	65	00682	P.ACF:	.ASCII	<19>\Line protocol error\	:
											43	41	21	03	00691				:
72	6F	72	72	65	20	4F	2F	49	20	65	6C	69	46	0E	00696	P.ACG:	.ASCII	<3>\!AC\	:
											43	41	21	03	0069A	P.ACH:	.ASCII	<14>\File I/O error\	:
69	64	20	68	6E	69	6C	20	72	6F	72	72	69	4D	18	006A9	P.ACI:	.ASCII	<3>\!AC\	:
				64	65	74	63	65	6E	6E	6E	6F	63	73	006AD	P.ACJ:	.ASCII	<24>\Mirror link disconnected\	:
											43	41	21	03	006BC				:
65	6E	20	72	6F	66	20	6D	6F	6F	72	20	6F	4E	15	006C6	P.ACK:	.ASCII	<3>\!AC\	:
							79	72	74	6E	65	20	77	77	006CA	P.ACL:	.ASCII	<21>\No room for new entry\	:
											43	41	21	03	006D9				:
74	63	65	6E	6E	6F	63	20	72	6F	72	72	69	4D	15	006E0	P.ACM:	.ASCII	<3>\!AC\	:
							64	65	6C	69	61	66	20	20	006E4	P.ACN:	.ASCII	<21>\Mirror connect failed\	:
											43	41	21	03	006F3				:
20	74	6F	6E	20	72	65	74	65	6D	61	72	61	50	18	006FA	P.ACO:	.ASCII	<3>\!AC\	:
					65	6C	62	61	63	69	6C	70	70	61	006FE	P.ACP:	.ASCII	<24>\Parameter not applicable\	:
											43	41	21	03	0070D				:
75	6C	61	76	20	72	65	74	65	6D	61	72	61	50	18	00717	P.ACQ:	.ASCII	<3>\!AC\	:
											43	41	21	03	0071B	P.ACR:	.ASCII	<24>\Parameter value too long\	:

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					67	6E	6F	6C	20	6F	6F	74	20	65	0072A				
											43	41	21	03	00734	P.ACS:	.ASCII	<3>\!AC\	
75	6C	69	61	66	20	65	72	61	77	64	72	61	48	10	00738	P.ACT:	.ASCII	<16>\Hardware failure\	
													65	72	00747				
											43	41	21	03	00749	P.ACQ:	.ASCII	<3>\!AC\	
6C	69	61	66	20	6E	6F	69	74	61	72	65	70	4F	11	0074D	P.ACV:	.ASCII	<17>\Operation failure\	
													65	72	0075C				
											43	41	21	03	0075F	P.ACW:	.ASCII	<3>\!AC\	
73	20	74	6F	6E	20	6E	6F	69	74	63	6E	75	46	16	00763	P.ACX:	.ASCII	<22>\Function not supported\	
							64	65	74	72	6F	70	70	75	00772				
											43	41	21	03	0077A	P.ACY:	.ASCII	<3>\!AC\	
65	6D	61	72	61	70	20	64	69	6C	61	76	6E	49	1A	0077E	P.ACZ:	.ASCII	<26>\Invalid parameter grouping\	
			67	6E	69	70	75	6F	72	67	20	72	65	74	0078D				
											43	41	21	03	00799	P.ADA:	.ASCII	<3>\!AC\	
72	20	6B	63	61	62	70	6F	6F	6C	20	64	61	42	15	0079D	P.ADB:	.ASCII	<21>\Bad loopback response\	
							65	73	6E	6F	70	73	65		007AC				
											43	41	21	03	007B3	P.ADC:	.ASCII	<3>\!AC\	
73	73	69	6D	20	72	65	74	65	6D	61	72	61	50	11	007B7	P.ADD:	.ASCII	<17>\Parameter missing\	
													67	6E	007C6				
													20	2C	02	007C9	P.ADE:	.ASCII	<2>\, \
											43	41	21	03	007CC	P.ADF:	.ASCII	<3>\!AC\	
61	74	61	64	20	74	6E	65	6E	61	6D	72	65	50	12	007D0	P.AD G:	.ASCII	<18>\Permanent database\	
											65	73	61	62	007DF				
											43	41	21	03	007E3	P.ADH:	.ASCII	<3>\!AC\	
						65	6C	69	66	20	64	61	6F	4C	09	007E7	P.ADI:	.ASCII	<9>\Load file\
											43	41	21	03	007F1	P.ADJ:	.ASCII	<3>\!AC\	
						65	6C	69	66	20	70	6D	75	44	09	007F5	P.ADK:	.ASCII	<9>\Dump file\
											43	41	21	03	007FF	P.ADL:	.ASCII	<3>\!AC\	
64	61	6F	6C	20	79	72	61	64	6E	6F	63	65	53	10	00803	P.ADM:	.ASCII	<16>\Secondary loader\	
													72	65	00812				
											43	41	21	03	00814	P.ADN:	.ASCII	<3>\!AC\	
65	64	61	6F	6C	20	79	72	61	69	74	72	65	54	0F	00818	P.ADO:	.ASCII	<15>\Tertiary loader\	
														72	00827				
											43	41	21	03	00828	P.ADP:	.ASCII	<3>\!AC\	
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75	6F	65	6D	69	74	20	65	76	69	65	63	65	52	0F	008BD	P.AEK:	.ASCII	<3>\!AC\
														74	008C1	P.AEL:	.ASCII	<9>\Initiated\
														03	008CB	P.AEM:	.ASCII	<3>\!AC\
														0A	008CF	P.AEN:	.ASCII	<10>\Terminated\
														03	008DA	P.AEO:	.ASCII	<3>\!AC\
														0F	008DE	P.AEP:	.ASCII	<15>\Receive timeout\
														03	008ED			
														0D	008EE	P.AEQ:	.ASCII	<3>\!AC\
														03	008F2	P.AER:	.ASCII	<13>\Receive error\
61	68	63	20	65	74	61	74	73	20	65	6E	69	4C	21	00900	P.AES:	.ASCII	<3>\!AC\
6C	20	72	65	68	67	69	68	20	79	62	20	65	67	6E	00904	P.AET:	.ASCII	\!Line state change by higher level\
														6C	00913			
														43	00922			
														03	00926	P.AEU:	.ASCII	<3>\!AC\
														14	0092A	P.AEV:	.ASCII	<20>\Unrecognized request\
														65	00939			
														03	0093F	P.AEW:	.ASCII	<3>\!AC\
6F	72	72	65	20	6E	65	70	6F	20	65	6E	69	4C	0F	00943	P.AEX:	.ASCII	<15>\Line open error\
														72	00952			
														0A	00953	P.AEY:	.ASCII	<10>\Node = !AS\
														06	0095E	P.AEZ:	.ASCII	<6>\ (!AC)\
														09	00965	P.AFA:	.ASCII	<9>\DTE = !AC\
														0A	0096F	P.AFB:	.ASCII	<10>\File = !AC\
														03	0097A	P.AFC:	.ASCII	<3>\!AC\
64	61	6F	6C	20	79	72	61	64	6E	6F	63	65	53	10	0097E	P.AFD:	.ASCII	<16>\Secondary loader\
														72	0098D			
														03	0098F	P.AFE:	.ASCII	<3>\!AC\
65	64	61	6F	6C	20	79	72	61	69	74	72	65	54	0F	00993	P.AFF:	.ASCII	<15>\Tertiary loader\
														72	009A2			
														03	009A3	P.AFG:	.ASCII	<3>\!AC\
74	73	79	73	20	67	6E	69	74	61	72	65	70	4F	10	009A7	P.AFH:	.ASCII	<16>\Operating system\
														6D	009B6			
65	72	64	64	61	20	74	65	6E	72	65	68	74	45	16	009B8	P.AFI:	.ASCII	<22>\Ethernet address = !XB\
														73	009C7			
														04	009CF	P.AFJ:	.ASCII	<4>\-!XB\
														03	009D4	P.AFK:	.ASCII	<3>\!AC\
61	6D	6D	6F	63	20	72	6F	74	61	72	65	70	4F	10	009D8	P.AFL:	.ASCII	<16>\Operator command\
														64	009E7			
														03	009E9	P.AFM:	.ASCII	<3>\!AC\
69	74	61	72	65	70	6F	20	6C	61	6D	72	6F	4E	10	009ED	P.AFN:	.ASCII	<16>\Normal operation\
														6E	009FC			
														0C	009FE	P.AFO:	.ASCII	<12>\Old state = \
														0C	00A0B	P.AFP:	.ASCII	<12>\New state = \
														03	00A18	P.AFQ:	.ASCII	<3>\!AC\
														02	00A1C	P.AFR:	.ASCII	<2>\On\
														03	00A1F	P.AFS:	.ASCII	<3>\!AC\
														03	00A23	P.AFT:	.ASCII	<3>\Off\
														03	00A27	P.AFU:	.ASCII	<3>\!AC\
														04	00A2B	P.AFV:	.ASCII	<4>\Shut\
														03	00A30	P.AFW:	.ASCII	<3>\!AC\
														0A	00A34	P.AFX:	.ASCII	<10>\Restricted\
20	3D	20	65	64	6F	6E	20	65	63	72	75	6F	53	11	00A3F	P.AFY:	.ASCII	<17>\Source node = !AS\
														21	00A4E			
														06	00A51	P.AFZ:	.ASCII	<6>\ (!AC)\
73	73	65	63	6F	72	70	20	65	63	72	75	6F	53	11	00A58	P.AGA:	.ASCII	<17>\Source process = \
														20	00A67			
72	70	20	6E	6F	69	74	61	6E	69	74	73	65	44	16	00A6A	P.AGB:	.ASCII	<22>\Destination process = \

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20 65 64 6F 6E 20 74 6E 65 63 61 6A 64 41 26 00C91 P.AHO: .ASCII \&Adjacent node listener receive timeout\
76 69 65 63 65 72 70 72 65 6E 65 74 73 69 6C 00CA0
74 75 6F 65 6D 69 74 20 65 00CAF
43 41 21 03 00CB8 P.AHP: .ASCII <3>\!AC\
20 65 64 6F 6E 20 74 6E 65 63 61 6A 64 41 2C 00CBC P.AHQ: .ASCII \,Adjacent node listener received invalid\
76 69 65 63 65 72 70 72 65 6E 65 74 73 69 6C 00CCB
64 69 6C 61 76 6E 69 20 64 65 00CDA
61 74 61 64 20 00CE4
43 41 21 03 00CE9 P.AHR: .ASCII \ data\
64 65 6C 69 61 66 20 6C 6C 61 43 0B 00CED P.AHS: .ASCII <3>\!AC\
43 41 21 03 00CF9 P.AHT: .ASCII <11>\Call failed\
70 20 6E 6F 69 74 61 63 69 66 69 72 65 56 32 00CFD P.AHU: .ASCII <3>\!AC\
65 72 69 75 71 65 72 20 64 72 6F 77 73 73 61 00D0C
61 68 50 20 6D 6F 72 66 20 64 00D1B
65 64 6F 6F 20 49 49 49 2C 65 73 00D25
43 41 21 03 00D30 P.AHV: .ASCII \se III node\
6A 64 61 20 79 62 20 64 65 70 70 6F 72 44 18 00D34 P.AHW: .ASCII <3>\!AC\
65 64 6F 6E 20 74 6E 65 63 61 00D43 P.AHX: .ASCII <24>\Dropped by adjacent node\
69 73 72 65 76 20 64 65 76 69 65 63 65 52 1E 00D4D
55 21 2E 4C 55 21 2E 4C 55 21 20 3D 20 6E 6F 00D5C
4C 00D6B
43 41 21 03 00D6C P.AHY: .ASCII <3>\!AC\
65 6C 62 61 68 63 61 65 52 09 00D70 P.AHZ: .ASCII <9>\Reachable\
43 41 21 03 00D7A P.AIA: .ASCII <3>\!AC\
20 65 6C 62 61 68 63 61 65 72 6E 55 0B 00D7E P.AIB: .ASCII <11>\Unreachable\
20 3D 20 65 74 61 74 73 20 64 6C 4F 0C 00D8A P.AIC: .ASCII <12>\Old state = \
20 3D 20 65 74 61 74 73 20 77 65 4E 0C 00D97 P.AID: .ASCII <12>\New state = \
43 41 21 03 00DA4 P.AIE: .ASCII <3>\!AC\
64 65 74 6C 61 48 06 00DAB P.AIF: .ASCII <6>\Halted\
43 41 21 03 00DAF P.AIG: .ASCII <3>\!AC\
54 52 54 53 49 05 00DB3 P.AIH: .ASCII <5>\ISTRT\
43 41 21 03 00DB9 P.AII: .ASCII <3>\!AC\
54 52 54 53 41 05 00DBD P.AIJ: .ASCII <5>\ASTRT\
43 41 21 03 00DC3 P.AIK: .ASCII <3>\!AC\
67 6E 69 6E 6E 75 52 07 00DC7 P.AIL: .ASCII <7>\Running\
43 41 21 03 00DCF P.AIM: .ASCII <3>\!AC\
65 63 6E 61 6E 65 74 6E 69 61 4D 0B 00DD3 P.AIN: .ASCII <11>\Maintenance\
75 62 69 72 74 20 64 65 74 63 65 6C 65 53 18 00DDF P.AIO: .ASCII <9>\Header = \
4C 55 21 20 3D 20 79 72 61 74 00DE9 P.AIP: .ASCII <24>\Selected tributary = !UL\
75 62 69 72 74 20 73 75 6F 69 76 65 72 50 18 00DE8
4C 55 21 20 3D 20 79 72 61 74 00E02 P.AIQ: .ASCII <24>\Previous tributary = !UL\
74 61 74 73 20 79 72 61 74 75 62 69 72 54 13 00E1B P.AIR: .ASCII <19>\Tributary status = \
20 3D 20 73 75 00E2A
43 41 21 03 00E2F P.AIS: .ASCII <3>\!AC\
67 6E 69 6D 61 65 72 74 53 09 00E33 P.AIT: .ASCII <9>\Streaming\
43 41 21 03 00E3D P.AIU: .ASCII <3>\!AC\
64 6E 65 73 20 64 65 75 6E 69 74 6E 6F 43 1C 00E41 P.AIV: .ASCII <28>\Continued send after timeout\
74 63 65 6C 65 73 65 64 20 72 65 74 66 61 20 00E50
43 41 21 03 00E5E P.AIW: .ASCII <3>\!AC\
64 6E 65 73 20 64 65 75 6E 69 74 6E 6F 43 1D 00E62 P.AIX: .ASCII <29>\Continued send after deselect\
74 63 65 6C 65 73 65 64 20 72 65 74 66 61 20 00E71
43 41 21 03 00E80 P.AIY: .ASCII <3>\!AC\
6E 69 6D 61 65 72 74 73 20 64 65 64 6E 45 0F 00E84 P.AIZ: .ASCII <15>\Ended streaming\
75 62 69 72 74 20 64 65 76 69 65 63 65 52 18 00E94 P.AJA: .ASCII <24>\Received tributary = !UL\
4C 55 21 20 3D 20 79 72 61 74 00EA3
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CONSOLE
V04-000

D 16

16-Sep-1984 01:31:10

14-Sep-1984 12:28:46

VAX-11 Bliss-32 V4.0-742

DISK\$VMSMASTER:[EVL.SRC]CONSOLE.B32;1

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3D	20	68	74	67	6E	65	6C	20	6B	63	6F	6C	42	12	00EAD	P.AJB:	.ASCII	<18>\Block length = !UL\	
20	68	74	67	6E	65	6C	20	72	65	66	66	75	42	13	00EBC				
											4C	55	21	20	00EC0	P.AJC:	.ASCII	<19>\Buffer length = !UL\	
											4C	55	21	20	00ECF				
					43	41	21	20	3D	20	45	54	44	09	00ED4	P.AJD:	.ASCII	<9>\DTE = !AC\	
					20	3D	20	6E	6F	73	61	65	52	09	00EDE	P.AJE:	.ASCII	<9>\Reason = \	
											43	41	21	03	00EE8	P.AJF:	.ASCII	<3>\!AC\	
61	6D	6D	6F	63	20	72	6F	74	61	72	65	70	4F	10	00EEC	P.AJG:	.ASCII	<16>\Operator command\	
													64	6E	00EFB				
											43	41	21	03	00EFD	P.AJH:	.ASCII	<3>\!AC\	
69	74	6		65	70	6F	20	6C	61	6D	72	6F	4E	10	00F01	P.AJI:	.ASCII	<16>\Normal operation\	
													6E	6F	00F10				
		20	3D	20	65	74	61	74	73	20	64	6C	4F	0C	00F12	P.AJJ:	.ASCII	<12>\Old state = \	
		20	3D	20	65	74	61	74	73	20	77	65	4E	0C	00F1F	P.AJK:	.ASCII	<12>\New state = \	
											43	41	21	03	00F2C	P.AJL:	.ASCII	<3>\!AC\	
												6E	4F	02	00F30	P.AJM:	.ASCII	<2>\On\	
											43	41	21	03	00F33	P.AJN:	.ASCII	<3>\!AC\	
											66	66	4F	03	00F37	P.AJO:	.ASCII	<3>\Off\	
											43	41	21	03	00F3B	P.AJP:	.ASCII	<3>\!AC\	
										74	75	68	53	04	00F3F	P.AJQ:	.ASCII	<4>\Shut\	
65	70	79	7'	20	72	65	74	65	6D	61	72	61	50	15	00F44	P.AJR:	.ASCII	<21>\Parameter type = #!UL\	
								4C	55	21	23	20	3D	20	00F53				
21	20	3D	4C	55	21	20	3D	20	65	73	75	61	43	0B	00F5A	P.AJS:	.ASCII	<11>\Cause = !UL\	
			20	63	69	74	73	6F	6E	67	61	69	44	10	00F66	P.AJT:	.ASCII	<16>\Diagnostic = !UL\	
													4C	55	00F75				
6E	6F	73	61	65	72	20	65	72	75	6C	69	61	46	11	00F77	P.AJU:	.ASCII	<17>\Failure reason = \	
												20	3D	20	00F86				
											43	41	21	03	00F89	P.AJV:	.ASCII	<3>\!AC\	
6C	6C	6F	63	20	65	76	69	73	73	65	63	78	45	14	00F8D	P.AJW:	.ASCII	<20>\Excessive collisions\	
											73	6E	6F	69	73	69	00F9C		
											43	41	21	03	00FA2	P.AJX:	.ASCII	<3>\!AC\	
20	6B	63	65	68	63	20	72	65	69	72	72	61	43	14	00FA6	P.AJY:	.ASCII	<20>\Carrier check failed\	
									64	65	6C	69	61	66	00FB5				
											43	41	21	03	00FBB	P.AJZ:	.ASCII	<3>\!AC\	
														00	00FBF	P.AKA:	.ASCII	<0>	
											43	41	21	03	00FC0	P.AKB:	.ASCII	<3>\!AC\	
		74	69	75	63	72	69	63	20	74	72	6F	68	53	0D	00FC4	P.AKC:	.ASCII	<13>\Short circuit\
												43	41	21	03	00FD2	P.AKD:	.ASCII	<3>\!AC\
		74	69	75	63	72	69	63	20	6E	65	70	4F	0C	00FD6	P.AKE:	.ASCII	<12>\Open circuit\	
											43	41	21	03	00FE3	P.AKF:	.ASCII	<3>\!AC\	
67	6E	6F	6C	20	6F	6F	74	20	65	6D	61	72	46	0E	00FE7	P.AKG:	.ASCII	<14>\Frame too long\	
											43	41	21	03	00FF6	P.AKH:	.ASCII	<3>\!AC\	
65	72	75	6C	69	61	66	20	65	74	6F	6D	65	52	17	00FFA	P.AKI:	.ASCII	<23>\Remote failure to defer\	
					72	65	66	65	64	20	6F	74	20	01009					
										43	41	21	03	01012	P.AKJ:	.ASCII	<3>\!AC\		
72	65	20	6B	63	65	68	63	20	6B	63	6F	6C	42	11	01016	P.AKK:	.ASCII	<17>\Block check error\	
											72	6F	72	01025					
											43	41	21	03	01028	P.AKL:	.ASCII	<3>\!AC\	
		72	6F	72	72	65	20	67	6E	69	6D	61	72	46	0D	0102C	P.AKM:	.ASCII	<13>\Framing error\
												43	41	21	03	0103A	P.AKN:	.ASCII	<3>\!AC\
		6E	75	72	72	65	76	6F	20	61	74	61	44	0C	0103E	P.AKO:	.ASCII	<12>\Data overrun\	
											43	41	21	03	0104B	P.AKP:	.ASCII	<3>\!AC\	
20	72	65	66	66	75	62	20	6D	65	74	73	79	53	19	0104F	P.AKQ:	.ASCII	<25>\System buffer unavailable\	
			65	6C	62	61	6C	69	61	76	61	6E	75	0105E					
										43	41	21	03	01069	P.AKR:	.ASCII	<3>\!AC\		
6E	75	20	72	65	66	66	75	62	20	72	65	73	55	17	0106D	P.AKS:	.ASCII	<23>\User buffer unavailable\	
					65	6C	62	61	6C	69	61	76	61	76	61	0107C			

66	20	64	65	7A	69	6E	67	6F	63	65	72	41	21	03	01085	P.AKT:	.ASCII	<3>\!AC\
6F	69	74	61	6E	69	74	73	65	64	20	65	6E	55	1E	01089	P.AKU:	.ASCII	<30>\Unrecognized frame destination\
													61	72	01098			
														6E	010A7			
4C	55	21	20	3D	20	65	63	6E	61	74	73	69	44	0E	010AB	P.AKV:	.ASCII	<14>\Distance = !UL\
65	64	61	65	68	20	74	65	6E	72	65	68	74	45	12	010B7	P.AKW:	.ASCII	<18>\Ethernet header = \
											20	3D	20	72	010C6			
75	74	61	74	73	20	65	72	61	77	64	72	61	48	12	010CA	P.AKX:	.ASCII	<18>\Hardware status = \
											20	3D	20	73	010D9			
65	74	73	69	67	65	72	20	65	63	69	76	65	44	15	010DD	P.AKY:	.ASCII	<21>\Device register = .XW\
								57	58	21	20	3D	20	72	010EC			
		20	3D	20	65	74	61	74	73	20	77	65	4E	0C	010F3	P.AKZ:	.ASCII	<12>\New state = \
											43	41	21	03	01100	P.ALA:	.ASCII	<3>\!AC\
											66	66	4F	03	01104	P.ALB:	.ASCII	<3>\Off\
											43	41	21	03	01108	P.ALC:	.ASCII	<3>\!AC\
												6E	4F	02	0110C	P.ALD:	.ASCII	<2>\On\
		20	65	64	6F	6E	20	65	74	6F	6D	65	52	0C	0110F	P.ALE:	.ASCII	<12>\Remote node \
											53	41	21	03	0111C	P.ALf:	.ASCII	<3>\!AS\
											43	41	21	03	01120	P.ALg:	.ASCII	<3>\!AC\
				43	41	21	20	3D	20	65	6D	61	4E	0A	01124	P.ALH:	.ASCII	<10>\Name = !AC\
				4C	58	21	20	3D	20	44	49	50	09	09	0112F	P.ALI:	.ASCII	<9>\PID = !XL\
4C	58	21	20	3D	20	73	75	74	61	74	61	74	53	0C	01139	P.ALJ:	.ASCII	<12>\Status = !XL\

OFFC 00000 FORMAT_PARAMETER:

PC	OP	OP2	OP3	OP4	OP5	OP6	OP7	OP8	OP9	OP10	OP11	OP12	OP13	OP14	OP15	OP16	OP17	OP18	OP19	OP20	OP21	OP22	OP23	OP24	OP25	OP26	OP27	OP28	OP29	OP30	OP31	OP32	OP33	OP34	OP35	OP36	OP37	OP38	OP39	OP40	OP41	OP42	OP43	OP44	OP45	OP46	OP47	OP48	OP49	OP50	OP51	OP52	OP53	OP54	OP55	OP56	OP57	OP58	OP59	OP60	OP61	OP62	OP63	OP64	OP65	OP66	OP67	OP68	OP69	OP70	OP71	OP72	OP73	OP74	OP75	OP76	OP77	OP78	OP79	OP80	OP81	OP82	OP83	OP84	OP85	OP86	OP87	OP88	OP89	OP90	OP91	OP92	OP93	OP94	OP95	OP96	OP97	OP98	OP99	OP100	OP101	OP102	OP103	OP104	OP105	OP106	OP107	OP108	OP109	OP110	OP111	OP112	OP113	OP114	OP115	OP116	OP117	OP118	OP119	OP120	OP121	OP122	OP123	OP124	OP125	OP126	OP127	OP128	OP129	OP130	OP131	OP132	OP133	OP134	OP135	OP136	OP137	OP138	OP139	OP140	OP141	OP142	OP143	OP144	OP145	OP146	OP147	OP148	OP149	OP150	OP151	OP152	OP153	OP154	OP155	OP156	OP157	OP158	OP159	OP160	OP161	OP162	OP163	OP164	OP165	OP166	OP167	OP168	OP169	OP170	OP171	OP172	OP173	OP174	OP175	OP176	OP177	OP178	OP179	OP180	OP181	OP182	OP183	OP184	OP185	OP186	OP187	OP188	OP189	OP190	OP191	OP192	OP193	OP194	OP195	OP196	OP197	OP198	OP199	OP200	OP201	OP202	OP203	OP204	OP205	OP206	OP207	OP208	OP209	OP210	OP211	OP212	OP213	OP214	OP215	OP216	OP217	OP218	OP219	OP220	OP221	OP222	OP223	OP224	OP225	OP226	OP227	OP228	OP229	OP230	OP231	OP232	OP233	OP234	OP235	OP236	OP237	OP238	OP239	OP240	OP241	OP242	OP243	OP244	OP245	OP246	OP247	OP248	OP249	OP250	OP251	OP252	OP253	OP254	OP255	OP256	OP257	OP258	OP259	OP260	OP261	OP262	OP263	OP264	OP265	OP266	OP267	OP268	OP269	OP270	OP271	OP272	OP273	OP274	OP275	OP276	OP277	OP278	OP279	OP280	OP281	OP282	OP283	OP284	OP285	OP286	OP287	OP288	OP289	OP290	OP291	OP292	OP293	OP294	OP295	OP296	OP297	OP298	OP299	OP300	OP301	OP302	OP303	OP304	OP305	OP306	OP307	OP308	OP309	OP310	OP311	OP312	OP313	OP314	OP315	OP316	OP317	OP318	OP319	OP320	OP321	OP322	OP323	OP324	OP325	OP326	OP327	OP328	OP329	OP330	OP331	OP332	OP333	OP334	OP335	OP336	OP337	OP338	OP339	OP340	OP341	OP342	OP343	OP344	OP345	OP346	OP347	OP348	OP349	OP350	OP351	OP352	OP353	OP354	OP355	OP356	OP357	OP358	OP359	OP360	OP361	OP362	OP363	OP364	OP365	OP366	OP367	OP368	OP369	OP370	OP371	OP372	OP373	OP374	OP375	OP376	OP377	OP378	OP379	OP380	OP381	OP382	OP383	OP384	OP385	OP386	OP387	OP388	OP389	OP390	OP391	OP392	OP393	OP394	OP395	OP396	OP397	OP398	OP399	OP400	OP401	OP402	OP403	OP404	OP405	OP406	OP407	OP408	OP409	OP410	OP411	OP412	OP413	OP414	OP415	OP416	OP417	OP418	OP419
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	59	04	A2	9E	0005F	MOVAB	4(PTR), R9	1112	
	57		69	90	00063	MOVAB	(R9), BYTE2		
	55	10	AC	D0	00066	MOVL	CLASS, R5	1113	
			03	13	0006A	BEQL	9\$	1117	
			0431	31	0006C	BRW	134\$		
			54	D5	0006F	9\$: TSTL	PARAM_TYPE	1121	
			1D	12	00071	BNEQ	14\$		
01	00		58	8F	00073	CASEB	BYTE1, #0, #1		
	000E		0004		00077	10\$: .WORD	11\$-10\$, -		
							12\$-10\$		
			0000'	CF	9F	0007B	11\$: PUSHAB	P.AAP	
			0000'	CF	9F	0007F	PUSHAB	P.AAO	
				08	11	00083	BRB	13\$	
			0000'	CF	9F	00085	12\$: PUSHAB	P.AAR	
			0000'	CF	9F	00089	PUSHAB	P.AAO	
			05AB	31	0008D	13\$: BRW	161\$		
	01		54	D1	00090	14\$: CMPL	PARAM_TYPE, #1	1122	
			03	13	00093	BEQL	15\$		
			02EE	31	00095	BRW	103\$		
			57	95	00098	15\$: TSTB	BYTE2	1126	
			04	12	0009A	BNEQ	16\$		
			50	D4	0009C	CLRL	R0		
			0A	11	0009E	BRB	18\$		
			05	18	000A0	16\$: BGEQ	17\$		
	50		01	D0	000A2	MOVL	#1, R0		
			03	11	000A5	BRB	18\$		
	50		02	D0	000A7	17\$: MOVL	#2, R0		
02	00		50	CF	000AA	18\$: CASEL	R0, #0, #2		
001A	0010		0006		000AE	19\$: .WORD	20\$-19\$, -		
							21\$-19\$, -		
							22\$-19\$		
			0000'	CF	9F	000B4	20\$: PUSHAB	P.AAT	
			0000'	CF	9F	000B8	PUSHAB	P.AAS	
				12	11	000BC	BRB	23\$	
			0000'	CF	9F	000BE	21\$: PUSHAB	P.AAV	
			0000'	CF	9F	000C2	PUSHAB	P.AAU	
				08	11	000C6	BRB	23\$	
			0000'	CF	9F	000C8	22\$: PUSHAB	P.AAX	
			0000'	CF	9F	000CC	PUSHAB	P.AAW	
				53	DD	000D0	23\$: PUSHL	R3	
				03	FB	000D2	CALLS	#3, APPEND_STRINGS	
				57	95	000D7	TSTB	BYTE2	1127
				03	19	000D9	BLSS	24\$	
			017A	31	000DB	BRW	71\$		
				57	98	000DE	24\$: CVTBL	BYTE2, R0	1158
				50	CE	000E1	MNEGL	R0, R0	
				50	CF	000E4	CASEL	R0, #1, #28	
							26\$-25\$, -		
							27\$-25\$, -		
							28\$-25\$, -		
							29\$-25\$, -		
							30\$-25\$, -		
							31\$-25\$, -		
							32\$-25\$, -		
							33\$-25\$, -		
							34\$-25\$, -		
							35\$-25\$, -		
005B	0050	0045	003A		000E8	25\$: .WORD			
0087	007C	0071	0066		000F0				
0083	00A8	009D	0092		000F8				
00DF	00D4	00C9	00BE		00100				
0107	00FD	00F3	00E9		00108				
012F	0125	011B	0111		00110				
0157	014D	0143	0139		00118				
			0161		00120				

					36\$-25\$,-
					37\$-25\$,-
					38\$-25\$,-
					39\$-25\$,-
					41\$-25\$,-
					43\$-25\$,-
					45\$-25\$,-
					47\$-25\$,-
					49\$-25\$,-
					51\$-25\$,-
					53\$-25\$,-
					55\$-25\$,-
					57\$-25\$,-
					59\$-25\$,-
					61\$-25\$,-
					63\$-25\$,-
					65\$-25\$,-
					67\$-25\$,-
					69\$-25\$
0000'	CF	9F	00122	26\$:	PUSHAB P.AAZ
0000'	CF	9F	00126		PUSHAB P.AAY
	008C	31	0012A		BRW 40\$
0000'	CF	9F	0012D	27\$:	PUSHAB P.ABB
0000'	CF	9F	00131		PUSHAB P.ABA
	008C	31	00135		BRW 42\$
0000'	CF	9F	00138	28\$:	PUSHAB P.ABD
0000'	CF	9F	0013C		PUSHAB P.ABC
	008C	31	00140		BRW 44\$
0000'	CF	9F	00143	29\$:	PUSHAB P.ABF
0000'	CF	9F	00147		PUSHAB P.ABE
	008B	31	0014B		BRW 46\$
0000'	CF	9F	0014E	30\$:	PUSHAB P.ABH
0000'	CF	9F	00152		PUSHAB P.ABG
	008A	31	00156		BRW 48\$
0000'	CF	9F	00159	31\$:	PUSHAB P.ABJ
0000'	CF	9F	0015D		PUSHAB P.ABI
	0089	31	00161		BRW 50\$
0000'	CF	9F	00164	32\$:	PUSHAB P.ABL
0000'	CF	9F	00168		PUSHAB P.ABK
	0088	31	0016C		BRW 52\$
0000'	CF	9F	0016F	33\$:	PUSHAB P.ABN
0000'	CF	9F	00173		PUSHAB P.ABM
	0087	31	00177		BRW 54\$
0000'	CF	9F	0017A	34\$:	PUSHAB P.ABP
0000'	CF	9F	0017E		PUSHAB P.ABO
	0086	31	00182		BRW 56\$
0000'	CF	9F	00185	35\$:	PUSHAB P.ABR
0000'	CF	9F	00189		PUSHAB P.ABQ
	0085	31	0018D		BRW 58\$
0000'	CF	9F	00190	36\$:	PUSHAB P.ABT
0000'	CF	9F	00194		PUSHAB P.ABS
	0084	31	00198		BRW 60\$
0000'	CF	9F	0019B	37\$:	PUSHAB P.ABV
0000'	CF	9F	0019F		PUSHAB P.ABU
	0083	31	001A3		BRW 62\$
0000'	CF	9F	001A6	38\$:	PUSHAB P.ABX
0000'	CF	9F	001AA		PUSHAB P.ABW

		0082	31	001AE	BRW	64\$	
0000'	CF	9F	001B1	39\$:	PUSHAB	P.ABZ	
0000'	CF	9F	001B5		PUSHAB	P.ABY	
		0081	31	001B9	BRW	66\$	
0000'	CF	9F	001BC	40\$:	PUSHAB	P.ACB	
0000'	CF	9F	001C0	41\$:	PUSHAB	P.ACA	
		0080	31	001C4	BRW	68\$	
0000'	CF	9F	001C7	42\$:	PUSHAB	P.ACD	
0000'	CF	9F	001CB	43\$:	PUSHAB	P.ACC	
		76	11	001CF	BRB	68\$	
0000'	CF	9F	001D1	44\$:	PUSHAB	P.ACF	
0000'	CF	9F	001D5	45\$:	PUSHAB	P.ACE	
		76	11	001D9	BRB	70\$	
0000'	CF	9F	001DB	46\$:	PUSHAB	P.ACH	
0000'	CF	9F	001DF	47\$:	PUSHAB	P.ACG	
		6C	11	001E3	BRB	70\$	
0000'	CF	9F	001E5	48\$:	PUSHAB	P.ACJ	
0000'	CF	9F	001E9	49\$:	PUSHAB	P.ACI	
		62	11	001ED	BRB	70\$	
0000'	CF	9F	001EF	50\$:	PUSHAB	P.ACL	
0000'	CF	9F	001F3	51\$:	PUSHAB	P.ACK	
		58	11	001F7	BRB	70\$	
0000'	CF	9F	001F9	52\$:	PUSHAB	P.ACN	
0000'	CF	9F	001FD	53\$:	PUSHAB	P.ACM	
		4E	11	00201	BRB	70\$	
0000'	CF	9F	00203	54\$:	PUSHAB	P.ACP	
0000'	CF	9F	00207	55\$:	PUSHAB	P.ACO	
		44	11	0020B	BRB	70\$	
0000'	CF	9F	0020D	56\$:	PUSHAB	P.ACR	
0000'	CF	9F	00211	57\$:	PUSHAB	P.ACQ	
		3A	11	00215	BRB	70\$	
0000'	CF	9F	00217	58\$:	PUSHAB	P.ACT	
0000'	CF	9F	0021B	59\$:	PUSHAB	P.ACS	
		30	11	0021F	BRB	70\$	
0000'	CF	9F	00221	60\$:	PUSHAB	P.ACV	
0000'	CF	9F	00225	61\$:	PUSHAB	P.ACU	
		26	11	00229	BRB	70\$	
0000'	CF	9F	0022B	62\$:	PUSHAB	P.ACX	
0000'	CF	9F	0022F	63\$:	PUSHAB	P.ACW	
		1C	11	00233	BRB	70\$	
0000'	CF	9F	00235	64\$:	PUSHAB	P.ACZ	
0000'	CF	9F	00239	65\$:	PUSHAB	P.ACY	
		12	11	0023D	BRB	70\$	
0000'	CF	9F	0023F	66\$:	PUSHAB	P.ADB	
0000'	CF	9F	00243	67\$:	PUSHAB	P.ADA	
		08	11	00247	BRB	70\$	
0000'	CF	9F	00249	68\$:	PUSHAB	P.ADD	
0000'	CF	9F	0024D	69\$:	PUSHAB	P.ADC	
		53	DD	00251	PUSHL	R3	
FD6F	CF	03	FB	00253	CALLS	#3, APPEND_STRINGS	
	02	5A	D1	00258	CMPL	FIELDS, #2	1159
		03	18	0025B	BGEQ	72\$	
		0110	31	0025D	BRW	100\$	
F3	8F	57	91	00260	CMPE	BYTE2, #-13	1164
		58	12	00264	BNEQ	80\$	
0000'	CF	9F	00266		PUSHAB	P.ADE	
		53	DD	0026A	PUSHL	R3	

002A	05 0020	FD56 CF 00 0016 003E	06 02 FB 0026C A2 8F 00271 000C 00276 73\$: 0034 0027E	CALLS #2, APPEND STRINGS CASEB 6(PTR), #0, #5 .WORD 74\$-73\$,- 75\$-73\$,- 76\$-73\$,- 77\$-73\$,- 78\$-73\$,- 79\$-73\$,-	1171
			0000' CF 9F 00282 74\$: 0000' CF 9F 00286 7C 11 0028A 0000' CF 9F 0028C 75\$: 0000' CF 9F 00290 7C 11 00294 0000' CF 9F 00296 76\$: 0000' CF 9F 0029A 7C 11 0029E 0000' CF 9F 002A0 77\$: 0000' CF 9F 002A4 7C 11 002A8 0000' CF 9F 002AA 78\$: 0000' CF 9F 002AE 72 11 002B2 0000' CF 9F 002B4 79\$: 0000' CF 9F 002B8 68 11 002BC 57 91 002BE 80\$: 0C 13 002C2 57 91 002C4 65 19 002C8 57 91 002CA 5F 14 002CE 0000' CF 9F 002D0 81\$: 53 DD 002D4 02 FB 002D6 06 A2 8F 002DB 000C 002E0 82\$: 0034 002E8	PUSHAB P.ADG PUSHAB P.ADF BRB 86\$ PUSHAB P.ADI PUSHAB P.ADH BRB 88\$ PUSHAB P.ADK PUSHAB P.ADJ BRB 90\$ PUSHAB P.ADM PUSHAB P.ADL BRB 92\$ PUSHAB P.ADO PUSHAB P.ADN BRB 92\$ PUSHAB P.ADQ PUSHAB P.ADP BRB 92\$ CMPB BYTE2, #-11 BEQL 81\$ CMPB BYTE2, #-9 BLSS 93\$ CMPB BYTE2, #-8 BGTR 93\$ PUSHAB P.ADR PUSHL R3 CALLS #2, APPEND STRINGS CASEB 6(PTR), #0, #5 .WORD 83\$-82\$,- 84\$-82\$,- 85\$-82\$,- 87\$-82\$,- 89\$-82\$,- 91\$-82\$,-	
		F5 8F F7 8F F8 8F			1172
002A	05 0020	FCEC CF 00 0016 003E	06 02 FB 0026C A2 8F 00271 000C 00276 73\$: 0034 0027E	PUSHAB P.ADT PUSHAB P.ADS BRB 92\$ PUSHAB P.ADV PUSHAB P.ADU BRB 92\$ PUSHAB P.ADX PUSHAB P.ADW BRB 92\$ PUSHAB P.ADZ PUSHAB P.ADY BRB 92\$ PUSHAB P.AEB PUSHAB P.AEA BRB 92\$	1173 1180
			0000' CF 9F 002EC 83\$: 0000' CF 9F 002F0 30 11 002F4 0000' CF 9F 002F6 84\$: 0000' CF 9F 002FA 26 11 002FE 0000' CF 9F 00300 85\$: 0000' CF 9F 00304 1C 11 00308 86\$: 0000' CF 9F 0030A 87\$: 0000' CF 9F 0030E 12 11 00312 88\$: 0000' CF 9F 00314 89\$: 0000' CF 9F 00318 08 11 0031C 90\$:		

		0000'	CF	9F	0031E	91\$	PUSHAB	P.AED	
		0000'	CF	9F	00322		PUSHAB	P.AEC	
			53	DD	00326	92\$	PUSHL	R3	
	FC9A	CF	03	FB	00328		CALLS	#3, APPEND_STRINGS	
			41	11	0032D		BRB	100\$	
	E3	8F	57	91	0032F	93\$	CMPB	BYTE2, #-29	1181
			0C	13	00333		BEQL	94\$	
	F0	8F	57	91	00335		CMPB	BYTE2, #-16	
			06	13	00339		BEQL	94\$	
	FA	8F	57	91	0033B		CMPB	BYTE2, #-6	
			2F	12	0033F		BNEQ	100\$	
		0000'	CF	9F	00341	94\$	PUSHAB	P.AEE	1182
			53	DD	00345		PUSHL	R3	
	FC7B	CF	02	FB	00347		CALLS	#2, APPEND_STRINGS	
02	0078	8F	06	A2	0034C		CASEW	6(PTR), #120, #2	1183
0012		000C	0006	AF	00353	95\$	.WORD	96\$-95\$,- 97\$-95\$,- 98\$-95\$	
		0000'	CF	9F	00359	96\$	PUSHAB	P.AEF	118
			0A	11	0035D		BRB	99\$	
		0000'	CF	9F	0035F	97\$	PUSHAB	P.AEG	1188
			04	11	00363		BRB	99\$	
		0000'	CF	9F	00365	98\$	PUSHAB	P.AEH	1189
			53	DD	00369	99\$	PUSHL	R3	
	FC57	CF	02	FB	0036B		CALLS	#2, APPEND_STRINGS	
		03	5A	D1	00370	100\$	CMPL	FIELDS, #3	1193
			03	18	00373		BGEQ	102\$	
		08F9	31	00375	101\$	BRW	279\$		
		09	A2	95	00378	102\$	TSTB	9(PTR)	1194
			F8	13	0037B		BEQL	101\$	
		09	A2	9F	0037D		PUSHAB	9(PTR)	1196
		0000'	CF	9F	00380		PUSHAB	P.AEI	
			70	11	00384		BRB	114\$	
		02	54	D1	00386	103\$	CMPL	PARAM_TYPE, #2	1198
			28	12	00389		BNEQ	107\$	
		0000'	CF	9F	0038B		PUSHAB	P.AEJ	
			53	DD	0038F		PUSHL	R3	
	FC31	CF	02	FB	00391		CALLS	#2, APPEND_STRINGS	
01		00	58	8F	00396		CASEB	BYTE1, #0, #1	1199
		000E	0004		0039A	104\$	.WORD	105\$-104\$,- 106\$-104\$	
		0000'	CF	9F	0039E	105\$	PUSHAB	P.AEL	
		0000'	CF	9F	003A2		PUSHAB	P.AEK	
			7E	11	003A6		BRB	117\$	
		0000'	CF	9F	003AB	106\$	PUSHAB	P.AEN	
		0000'	CF	9F	003AC		PUSHAB	.EM	
			0080	31	003B0		BRW	119\$	
		03	54	D1	003B3	107\$	CMPL	PARAM_TYPE, #3	1200
			40	12	003B6		BNEQ	115\$	
		04	58	8F	003B8		CASEB	BYTE1, #0, #4	1206
0028	001E	0014	000A		003BC	108\$	.WORD	109\$-108\$,- 110\$-108\$,- 111\$-108\$,- 112\$-108\$,- 113\$-108\$	
			0032		003C4				
		0000'	CF	9F	003C6	109\$	PUSHAB	P.AEP	
		0000'	CF	9F	003CA		PUSHAB	P.AEO	

		70	11	003CE	BRB	121\$	
	0000'	CF	9F	003D0	PUSHAB	P.AER	
	0000'	CF	9F	003D4	PUSHAB	P.AEQ	
		7F	11	003D8	BRB	125\$	
	0000'	CF	9F	003DA	PUSHAB	P.AET	
	0000'	CF	9F	003DE	PUSHAB	P.AES	
		7F	11	003E2	BRB	127\$	
	0000'	CF	9F	003E4	PUSHAB	P.AEV	
	0000'	CF	9F	003E8	PUSHAB	P.AEU	
		7F	11	003EC	BRB	129\$	
	0000'	CF	9F	003EE	PUSHAB	P.AEX	
	0000'	CF	9F	003F2	PUSHAB	P.AEW	
		75	11	003F6	BRB	129\$	
	05	54	D1	003F8	CMPL	PARAM_TYPE, #5	1207
		2B	12	003FB	BNEQ	118\$	
	7E	69	3C	003FD	MOVZWL	(R9), -(SP)	1208
0000V	CF	01	FB	00400	CALLS	#1, FORMAT_NODEADR	
		50	DD	00405	PUSHL	R0	
	0000'	CF	9F	00407	PUSHAB	P.AEY	
		53	DD	0040B	PUSHL	R3	
FBB5	CF	03	FB	0040D	CALLS	#3, APPEND_STRINGS	
	01	5A	D1	00412	CMPL	FIELDS, #1	1209
		03	14	00415	BGTR	116\$	
	0857	31	00417	BRW	279\$		
	07	A2	95	0041A	TSTB	7(PTR)	1210
		7E	13	0041D	BEQL	133\$	
	07	A2	9F	0041F	PUSHAB	7(PTR)	1211
	0000'	CF	9F	00422	PUSHAB	P.AEZ	
		45	11	00426	BRB	129\$	
	06	54	D1	00428	CMPL	PARAM_TYPE, #6	1212
		08	12	0042B	BNEQ	120\$	
		5B	DD	0042D	PUSHL	R11	
	0000'	CF	9F	0042F	PUSHAB	P.AFA	
		38	11	00433	BRB	129\$	
	07	54	D1	00435	CMPL	PARAM_TYPE, #7	1213
		08	12	00438	BNEQ	122\$	
		5B	DD	0043A	PUSHL	R11	
	0000'	CF	9F	0043C	PUSHAB	P.AFB	
		2B	11	00440	BRB	129\$	
	08	54	D1	00442	CMPL	PARAM_TYPE, #8	1214
		29	12	00445	BNEQ	130\$	
02	00	58	8F	00447	CASEB	BYTE1, #0, #2	1218
001A	0010	0006		0044B	.WORD	124\$-123\$,- 126\$-123\$,- 128\$-123\$	
		0000'	CF	7F	00451	PUSHAB	P.AFD
		0000'	CF	9F	00455	PUSHAB	P.AFC
		12	11	00459	BRB	129\$	
	0000'	CF	9F	0045B	PUSHAB	P.AFF	
	0000'	CF	9F	0045F	PUSHAB	P.AFE	
		08	11	00463	BRB	129\$	
	0000'	CF	9F	00465	PUSHAB	P.AFH	
	0000'	CF	9F	00469	PUSHAB	P.AFG	
		01DB	31	0046D	BRW	161\$	
	09	54	D1	00470	CMPL	PARAM_TYPE, #9	1220
		03	13	00473	BEQL	131\$	
		07ED	31	00475	BRW	278\$	

	7E		0000'	69	9A	00478	131\$:	MOVZBL	(R9), -(SP)		1222
				CF	9F	0047B		PUSHAB	P.AFI		
				53	DD	0047F		PUSHL	R3		
FB41	CF			03	FB	00481		CALLS	#3, APPEND_STRINGS		
	57			01	D0	00486		MOVL	#1, P		1223
	7E		04	A742	9A	00489	132\$:	MOVZBL	4(P)[PTR], -(SP)		1224
			0000'	CF	9F	0048E		PUSHAB	P.AFJ		
				53	DD	00492		PUSHL	R3		
FB2E	CF			03	FB	00494		CALLS	#3, APPEND_STRINGS		
EC	57			05	F3	00499		AOBLEQ	#5, P, 132\$		
			07	D1	31	0049D	133\$:	BRW	27\$		1118
	02			55	D1	004A0	134\$:	CMPL	R5, #2		1232
				03	13	004A3		BEQL	135\$		
			01	50	31	004A5		BRW	157\$		
	57			01	D0	004A8	135\$:	MOVL	#1, R7		1233
				54	D5	004AB		TSTL	PARAM_TYPE		1236
				23	12	004AD		BNEQ	140\$		
01				57	D4	004AF		CLRL	R7		
	00			58	8F	004B1		CASEB	BYTE1, #0, #1		1237
	000E		0004			004B5	136\$:	.WORD	137\$-136\$,-		
									138\$-136\$		
			0000'	CF	9F	004B9	137\$:	PUSHAB	P.AFL		
			0000'	CF	9F	004BD		PUSHAB	P.AFK		
				08	11	004C1		BRB	139\$		
			0000'	CF	9F	004C3	138\$:	PUSHAB	P.AFN		
			0000'	CF	9F	004C7		PUSHAB	P.AFM		
				53	DD	004CB	139\$:	PUSHL	R3		
FAF5	CF			03	FB	004CD		CALLS	#3, APPEND_STRINGS		
	01			54	D1	004D2	140\$:	CMPL	PARAM_TYPE, #1		1238
				0D	12	004D5		BNEQ	141\$		
				57	D4	004D7		CLRL	R7		
			0000'	CF	9F	004D9		PUSHAB	P.AFO		
				53	DD	004DD		PUSHL	R3		
FAE3	CF			02	FB	004DF		CALLS	#2, APPEND_STRINGS		
	02			54	D1	004E4	141\$:	CMPL	PARAM_TYPE, #2		1239
				0D	12	004E7		BNEQ	142\$		
				57	D4	004E9		CLRL	R7		
			0000'	CF	9F	004EB		PUSHAB	P.AFP		
				53	DD	004EF		PUSHL	R3		
FAD1	CF			02	FB	004F1		CALLS	#2, APPEND_STRINGS		
				54	D5	004F6	142\$:	TSTL	PARAM_TYPE		1240
				40	13	004F8		BEQL	149\$		
	02			54	D1	004FA		CMPL	PARAM_TYPE, #2		
				3B	1A	004FD		BGTRU	149\$		
				57	D4	004FF		CLRL	R7		
				58	8F	00501		CASEB	BYTE1, #0, #3		1241
0026	03								144\$-143\$,-		
	001C								145\$-143\$,-		
			0012						146\$-143\$,-		
			0008			00505	143\$:	.WORD	147\$-143\$		
			0000'	CF	9F	0050D	144\$:	PUSHAB	P.AFR		
			0000'	CF	9F	00511		PUSHAB	P.AFQ		
				1C	11	00515		BRB	148\$		
			0000'	CF	9F	00517	145\$:	PUSHAB	P.AFT		
			0000'	CF	9F	0051B		PUSHAB	P.AFS		
				12	11	0051F		BRB	148\$		
			0000'	CF	9F	00521	146\$:	PUSHAB	P.AFV		

		0000'	CF	9F	00525	PUSHAB	P.AFU	:	
			08	11	00529	BRB	148\$:	
		0000'	CF	9F	0052B	147\$:	PUSHAB	P.AFX	
		0000'	CF	9F	0052F		PUSHAB	P.AFW	
FA8D	CF		53	DD	00533	148\$:	PUSHL	R3	
	03		03	FB	00535		CALLS	#3, APPEND_STRINGS	
			54	D1	0053A	149\$:	CMPL	PARAM_TYPE, #3	1242
			2F	12	0053D		BNEQ	150\$	
			57	D4	0053F		CLRL	R7	
	7E		69	3C	00541		MOVZWL	(R9), -(SP)	1243
0000V	CF		01	FB	00544		CALLS	#1, FORMAT_NODEADR	
			50	DD	00549		PUSHL	R0	
		0000'	CF	9F	0054B		PUSHAB	P.AFY	
			53	DD	0054F		PUSHL	R3	
FA71	CF		03	FB	00551		CALLS	#3, APPEND_STRINGS	
	01		5A	D1	00556		CMPL	FIELDS, #1	1244
			13	15	00559		BLEQ	150\$	
		07	A2	95	0055B		TSTB	7(PTR)	1245
			0E	13	0055C		BEQL	150\$	
		07	A2	9F	00560		PUSHAB	7(PTR)	1246
		0000'	CF	9F	00563		PUSHAB	P.AFZ	
			53	DD	00567		PUSHL	R3	
FA59	CF		03	FB	00569		CALLS	#3, APPEND_STRINGS	
	04		54	D1	0056E	150\$:	CMPL	PARAM_TYPE, #4	1247
			0D	12	00571		BNEQ	151\$	
			57	D4	00573		CLRL	R7	
		0000'	CF	9F	00575		PUSHAB	P.AGA	
			53	DD	00579		PUSHL	R3	
FA47	CF		02	FB	0057B		CALLS	#2, APPEND_STRINGS	
	05		54	D1	00580	151\$:	CMPL	PARAM_TYPE, #5	1248
			0D	12	00583		BNEQ	152\$	
			57	D4	00585		CLRL	R7	
		0000'	CF	9F	00587		PUSHAB	P.AGB	
			53	DD	0058B		PUSHL	R3	
FA35	CF		02	FB	0058D		CALLS	#2, APPEND_STRINGS	
	04		54	D1	00592	152\$:	CMPL	PARAM_TYPE, #4	1249
			28	1F	00595		BLSSU	153\$	
	05		54	D1	00597		CMPL	PARAM_TYPE, #5	
			23	1A	0059A		BGTRU	153\$	
			57	D4	0059C		CLRL	R7	
	7E		69	9A	0059E		MOVZBL	(R9), -(SP)	1250
		0000'	CF	9F	005A1		PUSHAB	P.AGC	
			53	DD	005A5		PUSHL	R3	
FA1B	CF		03	FB	005A7		CALLS	#3, APPEND_STRINGS	
	03		5A	D1	005AC		CMPL	FIELDS, #3	1251
			0E	15	005AF		BLEQ	153\$	
		0A	A2	9F	005B1		PUSHAB	10(PTR)	1252
		0000'	CF	9F	005B4		PUSHAB	P.AGD	
			53	DD	005B8		PUSHL	R3	
FA08	CF		03	FB	005BA		CALLS	#3, APPEND_STRINGS	
	06		54	D1	005BF	153\$:	CMPL	PARAM_TYPE, #6	1253
			0F	12	005C2		BNEQ	154\$	
			57	D4	005C4		CLRL	R7	
			5B	DD	005C6		PUSHL	R11	
		0000'	CF	9F	005C8		PUSHAB	P.AGE	
			53	DD	005CC		PUSHL	R3	
F9F4	CF		03	FB	005CE		CALLS	#3, APPEND_STRINGS	

07		54	D1	005D3	154\$:	CMPL	PARAM_TYPE, #7	1254
		0D	12	005D6		BNEQ	155\$	
		57	D4	005D8		CLRL	R7	
	0000'	CF	9F	005DA		PUSHAB	P.AGF	
		53	DD	005DE		PUSHL	R3	
F9E2	CF	02	FB	005E0		CALLS	#2, APPEND_STRINGS	
	08	54	D1	005E5	155\$:	CMPL	PARAM_TYPE, #8	1255
		03	13	005E8		BEQL	156\$	
		0675	31	005EA		BRW	277\$	
		57	D4	005ED	156\$:	CLRL	R7	
		5B	DD	005EF		PUSHL	R11	
	0000'	CF	9F	005F1		PUSHAB	P.AGG	
		0663	31	005F5		BRW	276\$	
	03	55	D1	005F8	157\$:	CMPL	R5, #3	1259
		58	12	005FB		BNEQ	163\$	
		54	D5	005FD		TSTL	PARAM_TYPE	1263
		0E	12	005FF		BNEQ	158\$	
	0000'	CF	9F	00601		PUSHAB	P.AGH	1264
		53	DD	00605		PUSHL	R3	
F98B	CF	02	FB	00607		CALLS	#2, APPEND_STRINGS	
		05C9	31	0060C		BRW	269\$	1265
	01	54	D1	0060F	158\$:	CMPL	PARAM_TYPE, #1	1266
		09	12	00612		BNEQ	159\$	
	7E	58	9A	00614		MOVZBL	BYT1, -(SP)	
	0000'	CF	9F	00617		PUSHAB	P.AGI	
		2E	11	0061B		BRB	161\$	
	02	54	D1	0061D	159\$:	CMPL	PARAM_TYPE, #2	1267
		03	13	00620		BEQL	160\$	
		0640	31	00622		BRW	278\$	
	7E	69	3C	00625	160\$:	MOVZWL	(R9), -(SP)	1268
0000V	CF	01	FB	00628		CALLS	#1, FORMAT_NODEADR	
		50	DD	0062D		PUSHL	R0	
	0000'	CF	9F	0062F		PUSHAB	P.AGJ	
		53	DD	00633		PUSHL	R3	
F98D	CF	03	FB	00635		CALLS	#3, APPEND_STRINGS	
	01	5A	D1	0063A		CMPL	FIELDS, #1	1269
		13	15	0063D		BLEQ	162\$	
	07	A2	95	0063F		TSTB	7(PTR)	1270
		0E	13	00642		BEQL	162\$	
	07	A2	9F	00644		PUSHAB	7(PTR)	1271
	0000'	CF	9F	00647		PUSHAB	P.AGK	
		53	DD	0064B	161\$:	PUSHL	R3	
F975	CF	03	FB	0064D		CALLS	#3, APPEND_STRINGS	
		061C	31	00652	162\$:	BRW	279\$	1269
	04	55	D1	00655	163\$:	CMPL	R5, #4	1275
		03	13	00658		BEQL	164\$	
		01D5	31	0065A		BRW	200\$	
	57	01	D0	0065D	164\$:	MOVVL	#1, R7	1276
		54	D5	00660		TSTL	PARAM_TYPE	1279
		1A	12	00662		BNEQ	165\$	
		57	D4	00664		CLRL	R7	
	0000'	CF	9F	00666		PUSHAB	P.AGL	1280
		53	DD	0066A		PUSHL	R3	
F956	CF	02	FB	0066C		CALLS	#2, APPEND_STRINGS	
		0C	AC	DD	00671	PUSHL	MAXLEN	1281
	04	AE	DD	00674		PUSHL	4(SP)	
		53	DD	00677		PUSHL	R3	

0000V	CF		03	FB	00679	CALLS	#3, UNKNOWN_PARAM_DATA	
	01		54	D1	0067E	CMPL	PARAM_TYPE, #1	1282
			1A	12	00681	BNEQ	166\$	
		0000'	57	D4	00683	CLRL	R7	
			CF	9F	00685	PUSHAB	P.AGM	1283
			53	DD	00689	PUSHL	R3	
F937	CF		02	FB	0068B	CALLS	#2, APPEND_STRINGS	
		0C	AC	DD	00690	PUSHL	MAXLEN	1284
		04	AE	DD	00693	PUSHL	4(SP)	
			53	DD	00696	PUSHL	R3	
0000V	CF		03	FB	00698	CALLS	#3, UNKNOWN_PARAM_DATA	
	02		54	D1	0069D	CMPL	PARAM_TYPE, #2	1285
			10	12	006A0	BNEQ	167\$	
			57	D4	006A2	CLRL	R7	
	7E		6B	3C	006A4	MOVZWL	(R11), -(SP)	
		0000'	CF	9F	006A7	PUSHAB	P.AGN	
			53	DD	006AB	PUSHL	R3	
F915	CF		03	FB	006AD	CALLS	#3, APPEND_STRINGS	
	03		54	D1	006B2	CMPL	PARAM_TYPE, #3	1286
			0D	12	006B5	BNEQ	168\$	
		0000'	57	D4	006B7	CLRL	R7	
			CF	9F	006B9	PUSHAB	P.AGO	
			53	DD	006BD	PUSHL	R3	
F903	CF		02	FB	006BF	CALLS	#2, APPEND_STRINGS	
	08		54	D1	006C4	CMPL	PARAM_TYPE, #8	1287
			0D	12	006C7	BNEQ	169\$	
		0000'	57	D4	006C9	CLRL	R7	
			CF	9F	006CB	PUSHAB	P.AGP	
			53	DD	006CF	PUSHL	R3	
F8F1	CF		02	FB	006D1	CALLS	#2, APPEND_STRINGS	
	04		54	D1	006D6	CMPL	PARAM_TYPE, #4	1288
			0D	12	006D9	BNEQ	170\$	
		0000'	57	D4	006DB	CLRL	R7	
			CF	9F	006DD	PUSHAB	P.AGQ	
			53	DD	006E1	PUSHL	R3	
F8DF	CF		02	FB	006E3	CALLS	#2, APPEND_STRINGS	
	03		54	D1	006E8	CMPL	PARAM_TYPE, #3	1289
			05	1F	006EB	BLSSU	171\$	
	04		54	D1	006ED	CMPL	PARAM_TYPE, #4	
			05	1B	006F0	BLEQU	172\$	
	08		54	D1	006F2	CMPL	PARAM_TYPE, #8	
			2F	12	006F5	BNEQ	173\$	
			57	D4	006F7	CLRL	R7	
	7E		69	3C	006F9	MOVZWL	(R9), -(SP)	1290
0000V	CF		01	FB	006FC	CALLS	#1, FORMAT_NODEADR	
		0000'	50	DD	00701	PUSHL	R0	
			CF	9F	00703	PUSHAB	P.AGR	
			53	DD	00707	PUSHL	R3	
F889	CF		03	FB	00709	CALLS	#3, APPEND_STRINGS	
	01		5A	D1	0070E	CMPL	FIELDS, #1	1291
			13	15	00711	BLEQ	173\$	
			95	00713	TSTB	7(PTR)		1292
			05	13	00716	BEQL	173\$	
		07	A2	7	00718	PUSHAB	7(PTR)	1293
		0000'	CF	9F	0071B	PUSHAB	P.AGS	
			53	DD	0071F	PUSHL	R3	
F8A1	CF		03	FB	00721	CALLS	#3, APPEND_STRINGS	

		05	54	D1	00726	173\$:	CMPL	PARAM_TYPE, #5	1294
			03	13	00729		BEQL	174\$	
			00C0	31	0072B		BRW	193\$	
			57	D4	0072E	174\$:	CLRL	R7	
			58	8F	00730		CASEB	BYTE1, #0, #14	1310
003D	0E	00	001E		00734	175\$:	.WORD	176\$-175\$,-	
0065	0033	0029	0047		0073C			177\$-175\$,-	
008D	005B	0051	006F		00744			178\$-175\$,-	
	0083	0079	0097		0074C			179\$-175\$,-	
	00AB	00A1						180\$-175\$,-	
								181\$-175\$,-	
								182\$-175\$,-	
								183\$-175\$,-	
								184\$-175\$,-	
								185\$-175\$,-	
								186\$-175\$,-	
								187\$-175\$,-	
								188\$-175\$,-	
								189\$-175\$,-	
								191\$-175\$	
			0000'	CF	9F	00752	176\$:	PUSHAB	P.AGU
			0000'	CF	9F	00756		PUSHAB	P.AGT
				0080	31	0075A		BRW	190\$
			0000'	CF	9F	0075D	177\$:	PUSHAB	P.AGW
			0000'	CF	9F	00761		PUSHAB	P.AGV
				76	11	00765		BRB	190\$
			0000'	CF	9F	00767	178\$:	PUSHAB	P.AGY
			0000'	CF	9F	0076B		PUSHAB	P.AGX
				76	11	0076F		BRB	192\$
			0000'	CF	9F	00771	179\$:	PUSHAB	P.AHA
			0000'	CF	9F	00775		PUSHAB	P.AGZ
				6C	11	00779		BRB	192\$
			0000'	CF	9F	0077B	180\$:	PUSHAB	P.AHC
			0000'	CF	9F	0077F		PUSHAB	P.AHB
				62	11	00783		BRB	192\$
			0000'	CF	9F	00785	181\$:	PUSHAB	P.AHE
			0000'	CF	9F	00789		PUSHAB	P.AHD
				58	11	0078D		BRB	192\$
			0000'	CF	9F	0078F	182\$:	PUSHAB	P.AHG
			0000'	CF	9F	00793		PUSHAB	P.AHF
				4E	11	00797		BRB	192\$
			0000'	CF	9F	00799	183\$:	PUSHAB	P.AHI
			0000'	CF	9F	0079D		PUSHAB	P.AHH
				44	11	007A1		BRB	192\$
			0000'	CF	9F	007A3	184\$:	PUSHAB	P.AHK
			0000'	CF	9F	007A7		PUSHAB	P.AHJ
				3A	11	007AB		BRB	192\$
			0000'	CF	9F	007AD	185\$:	PUSHAB	P.AHM
			0000'	CF	9F	007B1		PUSHAB	P.AHL
				30	11	007B5		BRB	192\$
			0000'	CF	9F	007B7	186\$:	PUSHAB	P.AHO
			0000'	CF	9F	007BB		PUSHAB	P.AHN
				26	11	007BF		BRB	192\$
			0000'	CF	9F	007C1	187\$:	PUSHAB	P.AHQ
			0000'	CF	9F	007C5		PUSHAB	P.AHP
				1C	11	007C9		BRB	192\$
			0000'	CF	9F	007CB	188\$:	PUSHAB	P.AHS

		0000'	CF	9F	007CF	PUSHAB	P.AHR		
			12	11	007D3	BRB	192\$		
		0000'	CF	9F	007D5	189\$:	PUSHAB	P.AHU	
		0000'	CF	9F	007D9		PUSHAB	P.AHT	
			08	11	007DD	190\$:	BRB	192\$	
		0000'	CF	9F	007DF	191\$:	PUSHAB	P.AHW	
		0000'	CF	9F	007E3		PUSHAB	P.AHV	
			53	DD	007E7	192\$:	PUSHL	R3	
	F7D9		CF	03	FB	007E9	CALLS	#3, APPEND_STRINGS	
		06		54	D1	007EE	193\$:	CMPL	PARAM_TYPE, #6
				18	12	007F1	BNEQ	194\$	1311
				57	D4	007F3	CLRL	R7	
			7E	08	A2	9A	007F5	MOVZBL	8(PTR), -(SP)
			7E	06	A2	9A	007F9	MOVZBL	6(PTR), -(SP)
			7E		69	9A	007FD	MOVZBL	(R9), -(SP)
		0000'	CF	9F	00800		PUSHAB	P.AHX	
				53	DD	00804	PUSHL	R3	
	F7BC		CF	05	FB	00806	CALLS	#5, APPEND_STRINGS	
		07		54	D1	0080B	194\$:	CMPL	PARAM_TYPE, #7
				03	13	0080E	BEQL	195\$	1315
				044F	31	00810	BRW	277\$	
				57	D4	00813	195\$:	CLRL	R7
				58	8F	00815	CASEB	BYTE1, #0, #1	1316
	01		00	0004		00819	196\$:	.WORD	
								197\$-196\$,-	
								198\$-196\$	
		0000'	CF	9F	0081D	197\$:	PUSHAB	P.AHZ	
		0000'	CF	9F	00821		PUSHAB	P.AHY	
			08	11	00825		BRB	199\$	
		0000'	CF	9F	00827	198\$:	PUSHAB	P.AIB	
		0000'	CF	9F	0082B		PUSHAB	P.AIA	
			0429	31	0082F	199\$:	BRW	276\$	
		05		55	D1	00832	200\$:	CMPL	R5, #5
				03	13	00835	BEQL	201\$	1320
				0338	31	00837	BRW	262\$	
		57		01	D0	0083A	201\$:	MOV	#1, R7
				54	D5	0083D	TSTL	PARAM_TYPE	1321
				0D	12	0083F	BNEQ	202\$	1324
				57	D4	00841	CLRL	R7	
		0000'	CF	9F	00843		PUSHAB	P.AIC	
				53	DD	00847	PUSHL	R3	
	F779		CF	02	FB	00849	CALLS	#2, APPEND_STRINGS	
		01		54	D1	0084E	202\$:	CMPL	PARAM_TYPE, #1
				0D	12	00851	BNEQ	203\$	1325
				57	D4	00853	CLRL	R7	
		0000'	CF	9F	00855		PUSHAB	P.AID	
				53	DD	00859	PUSHL	R3	
	F767		CF	02	FB	0085B	CALLS	#2, APPEND_STRINGS	
		01		54	D1	00860	203\$:	CMPL	PARAM_TYPE, #1
				47	1A	00863	BGTRU	211\$	1326
				57	D4	00865	CLRL	R7	
				58	8F	00867	CASEB	BYTE1, #0, #4	1328
				000A		0086B	204\$:	.WORD	
				0032		00873		205\$-204\$,-	
								206\$-204\$,-	
								207\$-204\$,-	
								208\$-204\$,-	
								209\$-204\$	
		0000'	CF	9F	00875	205\$:	PUSHAB	P.AIF	

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		0000'	CF	9F	00879	PUSHAB	P.AIE		
			26	11	0087D	BRB	210\$		
		0000'	CF	9F	0087F	206\$:	PUSHAB	P.AIH	
		0000'	CF	9F	00883	PUSHAB	P.AIG		
			1C	11	00887	BRB	210\$		
		0000'	CF	9F	00889	207\$:	PUSHAB	P.AIJ	
		0000'	CF	9F	0088D	PUSHAB	P.AII		
			12	11	00891	BRB	210\$		
		0000'	CF	9F	00893	208\$:	PUSHAB	P.AIL	
		0000'	CF	9F	00897	PUSHAB	P.AIK		
			08	11	0089B	BRB	210\$		
		0000'	CF	9F	0089D	209\$:	PUSHAB	P.AIN	
		0000'	CF	9F	008A1	PUSHAB	P.AIM		
			53	DD	008A5	210\$:	PUSHL	R3	
F71B	CF		03	FB	008A7	CALLS	#3, APPEND_STRINGS		
	02		54	D1	008AC	211\$:	CMPL	PARAM_TYPE, #2	1329
			1A	12	008AF	BNEQ	212\$		
		0000'	57	D4	008B1	CLRL	R7		
			CF	9F	008B3	PUSHAB	P.AIO		1330
			53	DD	008B7	PUSHL	R3		
F709	CF		02	FB	008B9	CALLS	#2, APPEND_STRINGS		
		0C	AC	DD	008BE	PUSHL	MAXLEN		1331
		04	AE	DD	008C1	PUSHL	4(SP)		
			53	DD	008C4	PUSHL	R3		
0000V	CF		03	FB	008C6	CALLS	#3, UNKNOWN_PARAM_DATA		
	03		54	D1	008CB	212\$:	CMPL	PARAM_TYPE, #3	1332
			0	12	008CE	BNEQ	213\$		
			57	D4	008D0	CLRL	R7		
	7E		58	9A	008D2	MOVZBL	BYTE1, -(SP)		
		0000'	CF	9F	008D5	PUSHAB	P.AIP		
			53	DD	008D9	PUSHL	R3		
F6E7	CF		03	FB	008DB	CALLS	#3, APPEND_STRINGS		
	04		54	D1	008E0	213\$:	CMPL	PARAM_TYPE, #4	1333
			10	12	008E3	BNEQ	214\$		
			57	D4	008E5	CLRL	R7		
	7E		58	9A	008E7	MOVZBL	BYTE1, -(SP)		
		0000'	CF	9F	008EA	PUSHAB	P.AIQ		
			53	DD	008EE	PUSHL	R3		
F6D2	CF		03	FB	008F0	CALLS	#3, APPEND_STRINGS		
	05		54	D1	008F5	214\$:	CMPL	PARAM_TYPE, #5	1334
			46	12	008F8	BNEQ	221\$		
			57	D4	008FA	CLRL	R7		
		0000'	CF	9F	008FC	PUSHAB	P.AIR		
			53	DD	00900	PUSHL	R3		
F6C0	CF		02	FB	00902	CALLS	#2, APPEND_STRINGS		
	00		58	8F	00907	CASEB	BYTE1, #0, #3		1339
	001C		0008		0090B	215\$:	.WORD	216\$-215\$,-	
								217\$-215\$,-	
								218\$-215\$,-	
								219\$-215\$	
		0000'	CF	9F	00913	216\$:	PUSHAB	P.AIT	
		0000'	CF	9F	00917	PUSHAB	P.AIS		
			1C	11	0091B	BRB	220\$		
		0000'	CF	9F	0091D	217\$:	PUSHAB	P.AIV	
		0000'	CF	9F	00921	PUSHAB	P.AIU		
			12	11	00925	BRB	220\$		
		0000'	CF	9F	00927	218\$:	PUSHAB	P.AIX	

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		0000'	CF	9F	0092B	PUSHAB	P.AIW	:	
		08	11	0092F	BRB	220\$:	
		0000'	CF	9F	00931	219\$:	PUSHAB	P.AIZ	
		0000'	CF	9F	00935		PUSHAB	P.AIY	
		53	DD	00939	220\$:	PUSHL	R3	:	
F687	CF	03	FB	0093B		CALLS	#3, APPEND_STRINGS	:	
	06	54	D1	00940	221\$:	CMPL	PARAM_TYPE, #6	:	1340
		10	12	00943		BNEQ	222\$:	
		57	D4	00945		CLRL	R7	:	
	7E	58	9A	00947		MOVZBL	BYTE1, -(SP)	:	
		0000'	CF	9F	0094A		PUSHAB	P.AJA	
		53	DD	0094E		PUSHL	R3	:	
F672	CF	03	FB	00950		CALLS	#3, APPEND_STRINGS	:	
	07	54	D1	00955	222\$:	CMPL	PARAM_TYPE, #7	:	1341
		10	12	00958		BNEQ	223\$:	
		57	D4	0095A		CLRL	R7	:	
	7E	6B	3C	0095C		MOVZWL	(R11), -(SP)	:	
		0000'	CF	9F	0095F		PUSHAB	P.AJB	
		53	DD	00963		PUSHL	R3	:	
F65D	CF	03	FB	00965		CALLS	#3, APPEND_STRINGS	:	
	08	54	D1	0096A	223\$:	CMPL	PARAM_TYPE, #8	:	1342
		10	12	0096D		BNEQ	224\$:	
		57	D4	0096F		CLRL	R7	:	
	7E	6B	3C	00971		MOVZWL	(R11), -(SP)	:	
		0000'	CF	9F	00974		PUSHAB	P.AJC	
		53	DD	00978		PUSHL	R3	:	
F648	CF	03	FB	0097A		CALLS	#3, APPEND_STRINGS	:	
	09	54	D1	0097F	224\$:	CMPL	PARAM_TYPE, #9	:	1343
		0F	12	00982		BNEQ	225\$:	
		57	D4	00984		CLRL	R7	:	
		5B	DD	00986		PUSHL	R11	:	
		0000'	CF	9F	00988		PUSHAB	P.AJD	
		53	DD	0098C		PUSHL	R3	:	
F634	CF	03	FB	0098E		CALLS	#3, APPEND_STRINGS	:	
	0A	54	D1	00993	225\$:	CMPL	PARAM_TYPE, #10	:	1344
		2E	12	00996		BNEQ	230\$:	
		57	D4	00998		CLRL	R7	:	
		0000'	CF	9F	0099A		PUSHAB	P.AJE	
		53	DD	0099E		PUSHL	R3	:	
01	F622	CF	02	FB	009A0		CALLS	#2, APPEND_STRINGS	
	00	58	8F	009A5		CASEB	BYTE1, #0, #1	:	1347
	000E	0004		009A9	226\$:	.WORD	227\$-226\$, -	:	
							228\$-226\$:	
		0000'	CF	9F	009AD	227\$:	PUSHAB	P.AJG	
		0000'	CF	9F	009B1		PUSHAB	P.AJF	
		08	11	009B5		BRB	229\$:	
		0000'	CF	9F	009B7	228\$:	PUSHAB	P.AJI	
		0000'	CF	9F	009BB		PUSHAB	P.AJH	
		53	DD	009BF	229\$:	PUSHL	R3	:	
F601	CF	03	FB	009C1		CALLS	#3, APPEND_STRINGS	:	
	0B	54	D1	009C6	230\$:	CMPL	PARAM_TYPE, #11	:	1348
		0D	12	009C9		BNEQ	231\$:	
		57	D4	009CB		CLRL	R7	:	
		0000'	CF	9F	009CD		PUSHAB	P.AJJ	
		53	DD	009D1		PUSHL	R3	:	
F5EF	CF	02	FB	009D3		CALLS	#2, APPEND_STRINGS	:	
	0C	54	D1	009D8	231\$:	CMPL	PARAM_TYPE, #12	:	1349

			0D	12	009DB	BNEQ	232\$		
			57	D4	009DD	CLRL	R7		
		0000'	CF	9F	009DF	PUSHAB	P.AJK		
			53	DD	009E3	PUSHL	R3		
	F5DD	CF	02	FB	009E5	CALLS	#2, APPEND_STRINGS		
		OB	54	D1	009EA	CMPL	PARAM_TYPE, #11		1350
			34	1F	009ED	BLSSU	238\$		
		OC	54	D1	009EF	CMPL	PARAM_TYPE, #12		
			2F	1A	009F2	BGTRU	238\$		
			57	D4	009F4	CLRL	R7		
02		00	58	8F	009F6	CASEB	BYTE1, #0, #2		1351
001A		0010	0006		009FA	.WORD	234\$-233\$,-		
							235\$-233\$,-		
							236\$-233\$,-		
		0000'	CF	9F	00A00	PUSHAB	P.AJM		
		0000'	CF	9F	00A04	PUSHAB	P.AJL		
			12	11	00A08	BRB	237\$		
		0000'	CF	9F	00A0A	PUSHAB	P.AJO		235\$:
		0000'	CF	9F	00A0E	PUSHAB	P.AJN		
			08	11	00A12	BRB	237\$		
		0000'	CF	9F	00A14	PUSHAB	P.AJQ		236\$:
		0000'	CF	9F	00A18	PUSHAB	P.AJP		
			53	DD	00A1C	PUSHL	R3		
	F5A4	CF	03	FB	00A1E	CALLS	#3, APPEND_STRINGS		
		OD	54	D1	00A23	CMPL	PARAM_TYPE, #13		1352
			10	12	00A26	BNEQ	239\$		
			57	D4	00A28	CLRL	R7		
		7E	6B	3C	00A2A	MOVZWL	(R11), -(SP)		
			0000'	CF	9F	00A2D	PUSHAB	P.AJR	
			53	DD	00A31	PUSHL	R3		
	F58F	CF	03	FB	00A33	CALLS	#3, APPEND_STRINGS		
		OE	54	D1	00A38	CMPL	PARAM_TYPE, #14		1353
			10	12	00A3B	BNEQ	240\$		
			57	D4	00A3D	CLRL	R7		
		7E	58	9A	00A3F	MOVZBL	BYTE1, -(SP)		
			0000'	CF	9F	00A42	PUSHAB	P.AJS	
			53	DD	00A46	PUSHL	R3		
	F57A	CF	03	FB	00A48	CALLS	#3, APPEND_STRINGS		
		OF	54	D1	00A4D	CMPL	PARAM_TYPE, #15		1354
			10	12	00A50	BNEQ	241\$		
			57	D4	00A52	CLRL	R7		
		7E	58	9A	00A54	MOVZBL	BYTE1, -(SP)		
			0000'	CF	9F	00A57	PUSHAB	P.AJT	
			53	DD	00A5D	PUSHL	R3		
	F565	CF	03	FB	00A5F	CALLS	#3, APPEND_STRINGS		
		10	54	D1	00A62	CMPL	PARAM_TYPE, #16		1355
			03	13	00A65	BEQL	242\$		
			00B2	31	00A67	BRW	258\$		
			57	D4	00A6A	CLRL	R7		
			0000'	CF	9F	00A6C	PUSHAB	P.AJU	
			53	DD	00A70	PUSHL	R3		
	F550	CF	02	FB	00A72	CALLS	#2, APPEND_STRINGS		
		00	58	8F	00A77	CASEB	BYTE1, #0, #12		1369
			001A		00A7B	.WORD	244\$-243\$,-		
			0042		00A83		245\$-243\$,-		
			006A		00A8B		246\$-243\$,-		
			0092		00A93		247\$-243\$,-		


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248$-243$,-
249$-243$,-
250$-243$,-
251$-243$,-
252$-243$,-
253$-243$,-
254$-243$,-
255$-243$,-
256$-243$,-
0000' CF 9F 00A95 244$: PUSHAB P.AJW
0000' CF 9F 00A99 PUSHAB P.AJV
76 11 00A9D BRB 257$
0000' CF 9F 00A9F 245$: PUSHAB P.AJY
0000' CF 9F 00AA3 PUSHAB P.AJX
6C 11 00AA7 BRB 257$
0000' CF 9F 00AA9 246$: PUSHAB P.AKA
0000' CF 9F 00AAD PUSHAB P.AJZ
62 11 00AB1 BRB 257$
0000' CF 9F 00AB3 247$: PUSHAB P.AKC
0000' CF 9F 00AB7 PUSHAB P.AKB
58 11 00ABB BRB 257$
0000' CF 9F 00ABD 248$: PUSHAB P.AKE
0000' CF 9F 00AC1 PUSHAB P.AKD
4E 11 00AC5 BRB 257$
0000' CF 9F 00AC7 249$: PUSHAB P.AKG
0000' CF 9F 00ACB PUSHAB P.AKF
44 11 00ACF BRB 257$
0000' CF 9F 00AD1 250$: PUSHAB P.AKI
0000' CF 9F 00AD5 PUSHAB P.AKH
3A 11 00AD9 BRB 257$
0000' CF 9F 00ADB 251$: PUSHAB P.AKK
0000' CF 9F 00ADF PUSHAB P.AKJ
30 11 00AE3 BRB 257$
0000' CF 9F 00AE5 252$: PUSHAB P.AKM
0000' CF 9F 00AE9 PUSHAB P.AKL
26 11 00AED BRB 257$
0000' CF 9F 00AEF 253$: PUSHAB P.AKO
0000' CF 9F 00AF3 PUSHAB P.AKN
1C 11 00AF7 BRB 257$
0000' CF 9F 00AF9 254$: PUSHAB P.AKQ
0000' CF 9F 00AFD PUSHAB P.AKP
12 11 00B01 BRB 257$
0000' CF 9F 00B03 255$: PUSHAB P.AKS
0000' CF 9F 00B07 PUSHAB P.AKR
08 11 00B0B BRB 257$
0000' CF 9F 00B0D 256$: PUSHAB P.AKU
0000' CF 9F 00B11 PUSHAB P.AKT
53 DD 00B15 257$: PUSHL R3
F4AB CF 03 FB 00B17 CALLS #3, APPEND_STRINGS
11 54 D1 00B1C 258$: CMPL PARAM_TYPE, #17
10 12 00B1F BNEQ 259$
57 D4 00B21 CLRL R7
7E 68 3C 00B23 MOVZWL (R11), -(SP)
0000' CF 9F 00B26 PUSHAB P.AKV
53 DD 00B2A PUSHL R3
F496 CF 03 FB 00B2C CALLS #3, APPEND_STRINGS
12 54 D1 00B31 259$: CMPL PARAM_TYPE, #18
: 1370
: 1371
```

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CON
V04

Address	Disassembly	Comment	Symbol
00000000	1A 12 00B34	BNEQ	260\$
	57 D4 00B36	CLRL	R7
	0000' CF 9F 00B38	PUSHAB	P.AKW
	53 DD 00B3C	PUSHL	R3
F484 CF	02 FB 00B3E	CALLS	#2, APPEND_STRINGS
	0C AC DD 00B43	PUSHL	MAXLEN
	04 AE DD 00B46	PUSHL	4(SP)
	53 DD 00B49	PUSHL	R3
0000V CF	03 FB 00B4B	CALLS	#3, UNKNOWN_PARAM_DATA
13	54 D1 00B50	CMPL	PARAM_TYPE, #19
	1A 12 00B53	BNEQ	261\$
	57 D4 00B55	CLRL	R7
	0000' CF 9F 00B57	PUSHAB	P.AKX
	53 DD 00B5B	PUSHL	R3
F465 CF	02 FB 00B5D	CALLS	#2, APPEND_STRINGS
	0C AC DD 00B62	PUSHL	MAXLEN
	04 AE DD 00B65	PUSHL	4(SP)
	53 DD 00B68	PUSHL	R3
0000V CF	03 FB 00B6A	CALLS	#3, UNKNOWN_PARAM_DATA
	00F0 31 00B6F	BRW	277\$
06	55 D1 00B72	CMPL	R5, #6
	46 12 00B75	BNEQ	268\$
57	01 D0 00B77	MOVL	#1, R7
	54 D5 00B7A	TSTL	PARAM_TYPE
	10 12 00B7C	BNEQ	263\$
	57 D4 00B7E	CLRL	R7
	7E 6B 3C 00B80	MOVZWL	(R11), -(SP)
	0000' CF 9F 00B83	PUSHAB	P.AKY
	53 DD 00B87	PUSHL	R3
F439 CF	03 FB 00B89	CALLS	#3, APPEND_STRINGS
01	54 D1 00B8E	CMPL	PARAM_TYPE, #1
	DC 12 00B91	BNEQ	261\$
	57 D4 00B93	CLRL	R7
	0000' CF 9F 00B95	PUSHAB	P.AKZ
	53 DD 00B99	PUSHL	R3
F427 CF	02 FB 00B9B	CALLS	#2, APPEND_STRINGS
00	58 8F 00BA0	CASEB	BYTE1, #0, #1
000E	0004 00BA4	.WORD	265\$-264\$.-
			266\$-264\$
	0000' CF 9F 00BA8	PUSHAB	P.ALB
	0000' CF 9F 00BAC	PUSHAB	P.ALA
	08 11 00BB0	BRB	267\$
	0000' CF 9F 00BB2	PUSHAB	P.ALD
	0000' CF 9F 00BB6	PUSHAB	P.ALC
	009E 31 00BBA	BRW	276\$
30000045 8F	55 D1 00BB0	CMPL	R5, #69
	12 13 00BC4	BEQL	269\$
000000E1 8F	55 D1 00BC6	CMPL	R5, #225
	19 1F 00BCD	BLSSU	270\$
000000E2 8F	55 D1 00BCF	CMPL	R5, #226
	10 1A 00BD6	BGTRU	270\$
	0C AC DD 00BD3	PUSHL	MAXLEN
	04 AE DD 00BDB	PUSHL	4(SP)
	53 DD 00BDE	PUSHL	R3
0000V CF	03 FB 00BE0	CALLS	#3, UNKNOWN_PARAM_DATA
	0089 31 00BE5	BRW	279\$
00000080 8F	55 D1 00BE8	CMPL	R5, #128

		74	12	00BEF	BNEQ	278\$	
	57	01	D0	00BF1	MOVL	#1, R7	1396
		54	D5	00BF4	TSTL	PARAM_TYPE	1399
		2E	12	00BF6	BNEQ	273\$	
		57	D4	00BF8	CLRL	R7	
		CF	9F	00BFA	PUSHAB	P.ALE	
		53	DD	00BFE	PUSHL	R3	
F3C2	CF	02	FB	00C00	CALLS	#2, APPEND_STRINGS	
		6B	95	00C05	TSTB	(R11)	1400
		10	12	00C07	BNEQ	271\$	
	7E	69	3C	00C09	MOVZWL	(R9), -(SP)	1402
0000V	CF	01	FB	00C0C	CALLS	#1, FORMAT_NODEADR	
		50	DD	00C11	PUSHL	R0	
		CF	9F	00C13	PUSHAB	P.ALf	
		06	11	00C17	BRB	272\$	
		5B	DD	00C19	PUSHL	R11	1404
		CF	9F	00C1B	PUSHAB	P.ALg	
		53	DD	00C1F	PUSHL	R3	
F3A1	CF	03	FB	00C21	CALLS	#3, APPEND_STRINGS	
	01	54	D1	00C26	CMPL	PARAM_TYPE, #1	1405
		0F	12	00C29	BNEQ	274\$	
		57	D4	00C2B	CLRL	R7	
		5B	DD	00C2D	PUSHL	R11	
		CF	9F	00C2F	PUSHAB	P.ALH	
		53	DD	00C33	PUSHL	R3	
F38D	CF	03	FB	00C35	CALLS	#3, APPEND_STRINGS	
	02	54	D1	00C3A	CMPL	PARAM_TYPE, #2	1406
		0F	12	00C3D	BNEQ	275\$	
		57	D4	00C3F	CLRL	R7	
		6B	DD	00C41	PUSHL	(R11)	
		CF	9F	00C43	PUSHAB	P.ALl	
		53	DD	00C47	PUSHL	R3	
F379	CF	03	FB	00C49	CALLS	#3, APPEND_STRINGS	
	03	54	D1	00C4E	CMPL	PARAM_TYPE, #3	1407
		0F	12	00C51	BNEQ	277\$	
		57	D4	00C53	CLRL	R7	
		6B	DD	00C55	PUSHL	(R11)	
		CF	9F	00C57	PUSHAB	P.ALJ	
		53	DD	00C5B	PUSHL	R3	
F365	CF	03	FB	00C5D	CALLS	#3, APPEND_STRINGS	
	0C	57	E9	00C62	BLBC	R7, 279\$	1408
		0C	AC	DD	00C65	PUSHL	MAXLEN
		52	DD	00C68	PUSHL	PTR	1411
		53	DD	00C6A	PUSHL	R3	
0000V	CF	03	FB	00C6C	CALLS	#3, UNKNOWN_PARAMETER	
	08	56	D0	00C71	MOVL	NEXTPTR, @PARAM	1414
		04	00C75	RET			1416

; Routine Size: 3190 bytes, Routine Base: \$CODE\$ + 029C

```
1014 1417 1 ROUTINE unknown_parameter (string, ptr, maxlen): NOVALUE =
1015 1418 1
1016 1419 1 ---
1017 1420 1
1018 1421 1     Append a unknown parameter to a given string.
1019 1422 1
1020 1423 1 Inputs:
1021 1424 1
1022 1425 1     desc = Address of current string buffer
1023 1426 1     ptr = Address of parameter (data id, data type, ...)
1024 1427 1     maxlen = Maximum length that the parameter may be
1025 1428 1
1026 1429 1 Outputs:
1027 1430 1
1028 1431 1     The string is updated.
1029 1432 1 ---
1030 1433 1
1031 1434 2 BEGIN
1032 1435 2
1033 1436 2 MAP
1034 1437 2     ptr:          REF $BBLOCK;          ! Address of parameter data
1035 1438 2
1036 1439 2 BIND
1037 1440 2     desc = .string: VECTOR;          ! Address of string descriptor
1038 1441 2
1039 1442 2 append('Parameter #!UL = ', .ptr [0,0,11,0]); ! Show parameter type
1040 1443 2
1041 1444 2 unknown_param_data(desc, .ptr+2, .maxlen);      ! Append unknown data
1042 1445 2
1043 1446 1 END;
```

```
                                .PSECT $SPLITS,NOWRT,NOEXE,2
4C 55 21 23 20 72 65 74 65 6D 61 72 61 50 11 01146 P.ALK: .ASCII <17>\Parameter #!UL = \
                                20 3D 20 01155
```

```
                                .PSECT $CODE$,NOWRT,2
                                0000 0000 UNKNOWN_PARAMETER:
                                .WORD Save nothing
                                EXTZV #0, #11, @PTR, -(SP)
                                PUSHAB P.ALK
                                PUSHBL STRING
                                CALLS #3, APPEND_STRINGS
                                PUSHBL MAXLEN
                                ADDL3 #2, PTR, -(SP)
                                PUSHBL STRING
                                CALLS #3, UNKNOWN_PARAM_DATA
                                RET
```

7E	08	BC	0B	0000'	00	EF	00002		1417
				04	CF	9F	00008		1442
		F33D	CF	0C	AC	DD	0000C		
	7E	08	AC	04	03	FB	0000F		
					02	C1	00017		1444
		0000V	CF		AC	DD	0001C		
					03	FB	0001F		
					04	00	0024		1446

; Routine Size: 37 bytes, Routine Base: \$CODE\$ + 0F12

```

1045 1447 1 ROUTINE unknown_param_data (string, param, maxlen): NOVALUE =
1046 1448 1
1047 1449 1 ---
1048 1450 1
1049 1451 1 Append a unknown parameter to a given string.
1050 1452 1
1051 1453 1 Inputs:
1052 1454 1
1053 1455 1 desc = Address of current string buffer
1054 1456 1 param = Address of parameter data type
1055 1457 1 maxlen = Maximum length that the parameter may be
1056 1458 1
1057 1459 1 Outputs:
1058 1460 1
1059 1461 1 The string is updated.
1060 1462 1 ---
1061 1463 1
1062 1464 2 BEGIN
1063 1465 2
1064 1466 2 BIND
1065 1467 2 desc = .string: VECTOR; ! Address of string descriptor
1066 1468 2
1067 1469 2 LOCAL
1068 1470 2 ptr: REF $BBLOCK, ! Address of parameter data
1069 1471 2 fields; ! Number of fields in parameter
1070 1472 2
1071 1473 2 ptr = .param; ! Point to first data type
1072 1474 2
1073 1475 2 IF .ptr [0,7,1,0] ! If coded
1074 1476 2 AND .ptr [0,6,1,0] ! and multiple number of fields,
1075 1477 2 THEN
1076 1478 3 BEGIN
1077 1479 3 fields = .ptr [0,0,6,0]; ! Get # fields in parameter
1078 1480 3 ptr = .ptr + 1; ! and skip to actual first data item
1079 1481 3 END
1080 1482 2 ELSE
1081 1483 2 fields = 1; ! Else, indicate only one field
1082 1484 2
1083 1485 2 INCR i FROM 1 TO .fields ! For each field
1084 1486 2 DO
1085 1487 3 BEGIN
1086 1488 3 IF .ptr [0,7,1,0] ! If coded
1087 1489 3 THEN
1088 1490 4 BEGIN
1089 1491 4 INCRU j FROM 1 TO .ptr [0,0,6,0] ! For each byte in coded field
1090 1492 4 DO
1091 1493 4 append('!XB ' .ptr [.j,0,8,0]); ! append the hex for that byte
1092 1494 4 desc [0] = .desc [0] - 1; ! Strip off the last blank
1093 1495 4 ptr = .ptr + 1 + .ptr [0,0,6,0];
1094 1496 4 END
1095 1497 3 ELSE
1096 1498 3 IF .ptr [0,6,1,0] ! If ASCII image field
1097 1499 3 THEN
1098 1500 4 BEGIN
1099 1501 4 append('!AC' .ptr+1); ! append the string
1100 1502 4 ptr = .ptr + 2 + CH$RCHAR(.ptr+1); ! Use ASCII length
1101 1503 4 END

```

```

1102 1504 3 ELSE
1103 1505 4 BEGIN
1104 1506 4 LOCAL bytes, longword;
1105 1507 4 bytes = .ptr [0,0,4,0]; ! # bytes in field
1106 1508 4 IF .bytes EQL 0 ! If zero,
1107 1509 4 THEN
1108 1510 5 BEGIN ! then treat as hex image (counted)
1109 1511 5 INCRU j FROM 1 TO CH$RCHAR(.ptr+1) ! For each byte in field
1110 1512 5 DO
1111 1513 5 append('!XB', .ptr [j+1,0,8,0]); ! append the hex for that byte
1112 1514 5 ptr = .ptr + 2 + CH$RCHAR(.ptr+1);
1113 1515 5 END
1114 1516 5 ELSE BEGIN
1115 1517 5 IF .bytes GTRU 4 ! If greater than longword,
1116 1518 5 THEN
1117 1519 5 bytes = 4; ! then truncate to longword
1118 1520 5 longword = .ptr [1,0,8*.bytes,0]; ! Extract unsigned to longword
1119 1521 5 SELECTONEU .ptr [0,4,2,0] ! Based on output format,
1120 1522 5 OF
1121 1523 5 SET
1122 1524 5 [0]: append('!UL', .longword); ! Unsigned decimal
1123 1525 5 [1]: append('!SL', .ptr [1,0,8*.bytes,1]); ! Signed decimal
1124 1526 5 [2]: SELECTONEU .bytes OF SET ! Hexidecimal
1125 1527 5 [1]: append('!XB', .longword); ! byte
1126 1528 5 [2]: append('!XW', .longword); ! word
1127 1529 5 [4, OTHERWISE]: append('!XL', .longword); ! longword
1128 1530 5 TES;
1129 1531 5 [3]: SELECTONEU .bytes OF SET ! Octal
1130 1532 5 [1]: append('!OB', .longword); ! byte
1131 1533 5 [2]: append('!OW', .longword); ! word
1132 1534 5 [4, OTHERWISE]: append('!OL', .longword); ! longword
1133 1535 5 TES;
1134 1536 5 TES;
1135 1537 5 ptr = .ptr + 1 + .ptr [0,0,4,0];
1136 1538 5 END;
1137 1539 5 END;
1138 1540 3
1139 1541 3 IF .ptr - .param GTRU .maxlen ! If exceeded maximum allowable length
1140 1542 3 THEN
1141 1543 4 BEGIN
1142 1544 4 SIGNAL(msg(badparam)); ! Signal illegal NICE parameter
1143 1545 4 RETURN;
1144 1546 4 END;
1145 1547 3
1146 1548 3 IF .i LSS .fields ! If not last field,
1147 1549 3 THEN
1148 1550 3 append(' '); ! then delimit fields with a blank
1149 1551 2 END;
1150 1552 2
1151 1553 1 END;

```

.PSECT \$SPLITS, NOWRT, NOEXE, 2

20 42 58 21 04 01158 P.ALL: .ASCII <4>\!XB \
43 41 21 03 0115D P.ALM: .ASCII <3>\!AC \

:

PC	OP	OPN	OPND	OPND2	OPND3	OPND4	OPND5	OPND6	OPND7	OPND8	OPND9	OPND10	OPND11	OPND12	OPND13	OPND14	OPND15	OPND16	OPND17	OPND18	OPND19	OPND20	OPND21	OPND22	OPND23	OPND24	OPND25	OPND26	OPND27	OPND28	OPND29	OPND30	OPND31	OPND32	OPND33	OPND34	OPND35	OPND36	OPND37	OPND38	OPND39	OPND40	OPND41	OPND42	OPND43	OPND44	OPND45	OPND46	OPND47	OPND48	OPND49	OPND50	OPND51	OPND52	OPND53	OPND54	OPND55	OPND56	OPND57	OPND58	OPND59	OPND60	OPND61	OPND62	OPND63	OPND64	OPND65	OPND66	OPND67	OPND68	OPND69	OPND70	OPND71	OPND72	OPND73	OPND74	OPND75	OPND76	OPND77	OPND78	OPND79	OPND80	OPND81	OPND82	OPND83	OPND84	OPND85	OPND86	OPND87	OPND88	OPND89	OPND90	OPND91	OPND92	OPND93	OPND94	OPND95	OPND96	OPND97	OPND98	OPND99	OPND100	OPND101	OPND102	OPND103	OPND104	OPND105	OPND106	OPND107	OPND108	OPND109	OPND110	OPND111	OPND112	OPND113	OPND114	OPND115	OPND116	OPND117	OPND118	OPND119	OPND120	OPND121	OPND122	OPND123	OPND124	OPND125	OPND126	OPND127	OPND128	OPND129	OPND130	OPND131	OPND132	OPND133	OPND134	OPND135	OPND136	OPND137	OPND138	OPND139	OPND140	OPND141	OPND142	OPND143	OPND144	OPND145	OPND146	OPND147	OPND148	OPND149	OPND150	OPND151	OPND152	OPND153	OPND154	OPND155	OPND156	OPND157	OPND158	OPND159	OPND160	OPND161	OPND162	OPND163	OPND164	OPND165	OPND166	OPND167	OPND168	OPND169	OPND170	OPND171	OPND172	OPND173	OPND174	OPND175	OPND176	OPND177	OPND178	OPND179	OPND180	OPND181	OPND182	OPND183	OPND184	OPND185	OPND186	OPND187	OPND188	OPND189	OPND190	OPND191	OPND192	OPND193	OPND194	OPND195	OPND196	OPND197	OPND198	OPND199	OPND200	OPND201	OPND202	OPND203	OPND204	OPND205	OPND206	OPND207	OPND208	OPND209	OPND210	OPND211	OPND212	OPND213	OPND214	OPND215	OPND216	OPND217	OPND218	OPND219	OPND220	OPND221	OPND222	OPND223	OPND224	OPND225	OPND226	OPND227	OPND228	OPND229	OPND230	OPND231	OPND232	OPND233	OPND234	OPND235	OPND236	OPND237	OPND238	OPND239	OPND240	OPND241	OPND242	OPND243	OPND244	OPND245	OPND246	OPND247	OPND248	OPND249	OPND250	OPND251	OPND252	OPND253	OPND254	OPND255	OPND256	OPND257	OPND258	OPND259	OPND260	OPND261	OPND262	OPND263	OPND264	OPND265	OPND266	OPND267	OPND268	OPND269	OPND270	OPND271	OPND272	OPND273	OPND274	OPND275	OPND276	OPND277	OPND278	OPND279	OPND280	OPND281	OPND282	OPND283	OPND284	OPND285	OPND286	OPND287	OPND288	OPND289	OPND290	OPND291	OPND292	OPND293	OPND294	OPND295	OPND296	OPND297	OPND298	OPND299	OPND300	OPND301	OPND302	OPND303	OPND304	OPND305	OPND306	OPND307	OPND308	OPND309	OPND310	OPND311	OPND312	OPND313	OPND314	OPND315	OPND316	OPND317	OPND318	OPND319	OPND320	OPND321	OPND322	OPND323	OPND324	OPND325	OPND326	OPND327	OPND328	OPND329	OPND330	OPND331	OPND332	OPND333	OPND334	OPND335	OPND336	OPND337	OPND338	OPND339	OPND340	OPND341	OPND342	OPND343	OPND344	OPND345	OPND346	OPND347	OPND348	OPND349	OPND350	OPND351	OPND352	OPND353	OPND354	OPND355	OPND356	OPND357	OPND358	OPND359	OPND360	OPND361	OPND362	OPND363	OPND364	OPND365	OPND366	OPND367	OPND368	OPND369	OPND370	OPND371	OPND372	OPND373	OPND374	OPND375	OPND376	OPND377	OPND378	OPND379	
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		7E	01	A442	9A	00081	8\$:	MOVZBL	1(J)[PTR], -(SP)	1513
			09	AB	9F	00086		PUSHAB	P.ALN	
				58	DD	00089		PUSHL	R8	
	F29C	CF		03	FB	0008B		CALLS	#3, APPEND_STRINGS	
				54	D6	00090		INCL	J	
		55		54	D1	00092	9\$:	CMPL	J, R5	
				EA	1B	00095		BLEQU	8\$	
		52	02	A542	9E	00097		MOVAB	2(R5)[PTR], PTR	1514
				0084	31	0009C	10\$:	BRW	22\$	1508
		04		53	D1	0009F	11\$:	CMPL	BYTES, #4	1517
				03	1B	000A2		BLEQU	12\$	
		53		04	D0	000A4		MOVL	#4, BYTES	1519
	54			03	78	000A7	12\$:	ASHL	#3, BYTES, R4	1520
55	67			00	EF	000AB		EXTZV	#0, R4, (R7), LONGWORD	
		30		62	93	000B0		BITB	(PTR), #48	1524
				07	12	000B3		BNEQ	13\$	
				55	DD	000B5		PUSHL	LONGWORD	
			0D	AB	9F	000B7		PUSHAB	P.ALO	
				5B	11	000BA		BRB	20\$	
01	62	02		04	ED	000BC	13\$:	CMPZV	#4, #2, (PTR), #1	1525
				0A	12	000C1		BNEQ	14\$	
7E	67	54		00	EE	000C3		EXTV	#0, R4, (R7), -(SP)	
			11	AB	9F	000C8		PUSHAB	P.ALP	
				4A	11	000CB		BRB	20\$	
02	62	02		04	ED	000CD	14\$:	CMPZV	#4, #2, (PTR), #2	1526
				1F	12	000D2		BNEQ	17\$	
		01		53	D1	000D4		CMPL	BYTES, #1	1527
				07	12	000D7		BNEQ	15\$	
				55	DD	000D9		PUSHL	LONGWORD	
			15	AB	9F	000DB		PUSHAB	P.ALQ	
				37	11	000DE		BRB	20\$	
		02		53	D1	000E0	15\$:	CMPL	BYTES, #2	1528
				07	12	000E3		BNEQ	16\$	
				55	DD	000E5		PUSHL	LONGWORD	
			19	AB	9F	000E7		PUSHAB	P.ALR	
				2B	11	000EA		BRB	20\$	
				55	DD	000EC	16\$:	PUSHL	LONGWORD	1529
			1D	AB	9F	000EE		PUSHAB	P.ALS	
				24	11	000F1		BRB	20\$	
03	62	02		04	ED	000F3	17\$:	CMPZV	#4, #2, (PTR), #3	1531
				24	12	000F8		BNEQ	21\$	
		01		53	D1	000FA		CMPL	BYTES, #1	1532
				07	12	000FD		BNEQ	18\$	
				55	DD	000FF		PUSHL	LONGWORD	
			21	AB	9F	00101		PUSHAB	P.ALT	
				11	11	00104		BRB	20\$	
		02		53	D1	00106	18\$:	CMPL	BYTES, #2	1533
				07	12	00109		BNEQ	19\$	
				55	DD	0010B		PUSHL	LONGWORD	
			25	AB	9F	0010D		PUSHAB	P.ALU	
				05	11	00110		BRB	20\$	
				55	DD	00112	19\$:	PUSHL	LONGWORD	1534
			29	AB	9F	00114		PUSHAB	P.ALV	
				58	DD	00117	20\$:	PUSHL	R8	
	F20E	CF		03	FB	00119		CALLS	#3, APPEND_STRINGS	
		52	01	A642	9E	0011E	21\$:	MOVAB	1(R6)[PTR], PTR	1537
	50	52	08	AC	C3	00123	22\$:	SUBL3	PARAM, PTR, R0	1541

CONSOLE
V04-000

D 2
16-Sep-1984 01:31:10
14-Sep-1984 12:28:46

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EVL.SRC]CONSOLE.B32;1

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ERI

OC	AC	50	D1	00128	CMPL	R0, MAXLEN	:
		0E	1B	0012C	BLEQU	23\$:
00000000G	00	8F	DD	0012E	PUSHL	#EVL\$ BADPARAM	1544
		01	FB	00134	CALLS	#1, LTB\$SIGNAL	:
	5A		04	0013B	RET		1543
		59	D1	0013C	CMPL	I, FIELDS	1548
		0A	1B	0013F	BGEQ	24\$:
		2D	AB	9F	PUSHAB	P.ALW	1550
			58	DD	PUSHL	R8	:
FED5	59	F1E1	CF	02	CALLS	#2, APPEND_STRINGS	:
			01	5A	ACBL	FIELDS, #1, I, 3\$	1485
				04	RET		1553
							:

; Routine Size: 338 bytes, Routine Base: \$CODE\$ + 0F37

```

: 1153 1554 1 ROUTINE format_counter (string, param, maxlen): NOVALUE =
: 1154 1555 1
: 1155 1556 1 ---
: 1156 1557 1
: 1157 1558 1     Format a NICE counter and append the
: 1158 1559 1     descriptive text to a given string.
: 1159 1560 1
: 1160 1561 1     Inputs:
: 1161 1562 1
: 1162 1563 1     string = Address of descriptor of existing string
: 1163 1564 1     param = Address of longword containing pointer to counter
: 1164 1565 1     maxlen = Maximum length that the parameter may be
: 1165 1566 1
: 1166 1567 1     Outputs:
: 1167 1568 1
: 1168 1569 1     param = Address of longword pointing to location following counter
: 1169 1570 1 ---
: 1170 1571 1
: 1171 1572 2 BEGIN
: 1172 1573 2
: 1173 1574 2 BIND
: 1174 1575 2     desc = .string: VECTOR;      ! Address of string descriptor
: 1175 1576 2
: 1176 1577 2 LOCAL
: 1177 1578 2     ptr:          REF $BBLOCK,      ! Address of counter
: 1178 1579 2     type,          ! Counter type
: 1179 1580 2     count,        ! Actual counter value
: 1180 1581 2     width;         ! Width of counter field
: 1181 1582 2
: 1182 1583 2     ptr = ..param;          ! Get address of counter
: 1183 1584 2
: 1184 1585 2     width = 4 ^ .ptr [0,13,2,0];    ! Get the counter width
: 1185 1586 2
: 1186 1587 2     IF .ptr [0,12,1,0]          ! If bit mapped,
: 1187 1588 2     THEN
: 1188 1589 3         BEGIN
: 1189 1590 3             count = .ptr [4,0,..width,0];    ! Get unsigned counter
: 1190 1591 3             .param = .ptr + 4 + .width/8;    ! Update next position
: 1191 1592 3         END
: 1192 1593 2     ELSE
: 1193 1594 3         BEGIN
: 1194 1595 3             count = .ptr [2,0,..width,0];    ! Get unsigned counter
: 1195 1596 3             .param = .ptr + 2 + .width/8;    ! Update next position
: 1196 1597 3         END;
: 1197 1598 2
: 1198 1599 2     append('!10UL ',..count);      ! Append the count value
: 1199 1600 2
: 1200 1601 2     type = .ptr [0,0,11,0];      ! Get counter type
: 1201 1602 2
: 1202 1603 2     INCRA ptr FROM known_counters BY 6    ! Scan known event table
: 1203 1604 2     DO
: 1204 1605 3         BEGIN
: 1205 1606 3             MAP ptr: REF $BBLOCK;
: 1206 1607 3             IF ..ptr EQL 0          ! If end of table,
: 1207 1608 3             THEN
: 1208 1609 4                 BEGIN
: 1209 1610 4                     append('Unknown counter type !UL',..type);

```

```

: 1210      1611  4      EXITLOOP;      ! then exit with failure
: 1211      1612  3      END;
: 1212      1613  3      IF .type EQLU .ptr [0,0,16,0]      ! If known counter,
: 1213      1614  3      THEN
: 1214      1615  4      BEGIN
: 1215      1616  4      LOCAL
: 1216      1617  4      textbuf: VECTOR [128,BYTE], ! Message text buffer
: 1217      1618  4      text: VECTOR [2]; ! Message text descriptor
: 1218      1619  4      text [0] = 128; ! Setup descriptor
: 1219      1620  4      text [1] = textbuf;
: 1220      1621  4      $GETMSG(MSGID = .ptr [2,0,32,0], ! Get message text
: 1221      1622  4      BUFADR = text,
: 1222      1623  4      MSGLEN = text,
: 1223      1624  4      FLAGS = 1); ! without any prefixing
: 1224      1625  4      append('!AS', text);
: 1225      1626  4      EXITLOOP;
: 1226      1627  3      END;
: 1227      1628  2      END;
: 1228      1629  2
: 1229      1630  1 END;

```

```

.PSECT $SPLITS$,NOWRT,NOEXE,2
65 74 6E 75 6F 63 20 20 4C 55 30 31 21 07 01187 P.ALX: .ASCII <7>\!10UL \
4C 55 21 20 6F 6E 6B 6E 55 18 0118F P.ALY: .ASCII <24>\Unknown counter type !UL\
53 41 21 03 0119E P.ALZ: .ASCII <3>\!AS\

```

```

.PSECT $CODES$,NOWRT,2
000C 00000 FORMAT_COUNTER:
5E FF78 CE 9E 00002 .WORD Save R2,R3 : 1554
52 08 BC D0 00007 MOVAB -136(SP), SP : 1583
50 62 02 0D EF 0000B MOVL @PARAM, PTR : 1585
51 04 50 78 00010 EXTZV #13, #2, (PTR), WIDTH
51 50 08 C7 00014 ASHL WIDTH, #4, WIDTH
51 52 C0 00018 DIVL3 #8, WIDTH, R1 : 1591
53 04 0D 0C E1 0001B ADDL2 PTR, R1
53 0A A2 00 EF 0001F BBC #12, (PTR), 1$ : 1587
08 BC 04 A1 9E 00025 EXTZV #0, WIDTH, 4(PTR), COUNT : 1590
08 50 0B 11 0002A MOVAB 4(R1), @PARAM : 1591
53 02 A2 00 EF 0002C BRB 2$ : 1587
08 BC 02 A1 9E 00032 EXTZV #0, WIDTH, 2(PTR), COUNT : 1595
0000' 04 AC DD 0003D MOVL 2(R1), @PARAM : 1596
0000' 04 AC DD 0003D PUSHAB P.ALX : 1599
53 62 F195 CF 03 FB 00040 PUSHL STRING
08 52 0000' CF 9E 0004A CALLS #3, APPEND STRINGS : 1601
62 D5 0004F 00 EF 00045 EXTZV #0, #11, (PTR), TYPE : 1603
08 12 00051 MOVAB KNOWN_COUNTERS, R2 : 1607
53 DD 00053 TSTL (PTR) : 1610
BNEQ 4$
PUSHL TYPE

```

CONSOLE
V04-000

6 2
16-Sep-1984 01:31:10
14-Sep-1984 12:28:46

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ER

53	62	10	0000'	CF	9F	00055	PUSHAB	P.ALZ	:		
				29	11	00059	BRB	5\$:		
				00	ED	0005B	4\$:	CMPZV	#0, #16, (PTR), TYPE	1613	
				2B	12	00060	BNEQ	6\$:		
		6E	80	8F	9A	00062	MOVZBL	#128, TEXT	:	1619	
	04	AE	08	AE	9E	00066	MOVAB	TEXTBUF, TEXT+4	:	1620	
		7E		01	7D	0006B	MOVQ	#1, -(SP)	:	1624	
			08	AE	9F	0006E	PUSHAB	TEXT	:		
			0C	AE	9F	00071	PUSHAB	TEXT	:		
			02	A2	DD	00074	PUSHL	2(PTR)	:		
	00000000G	00		05	FB	00077	CALLS	#5, SYSS\$GETMSG	:		
				5E	DD	0007E	PUSHL	SP	:	1625	
			0000'	CF	9F	00080	PUSHAB	P.ALZ	:		
			04	AC	DD	00084	5\$:	PUSHL	STRING	:	
	F14E	CF		03	FB	00087	CALLS	#3, APPEND_STRINGS	:		
					04	0008C	RET		:	1615	
		52		06	C0	0008D	6\$:	ADDL2	#6, PTR	1603	
				BD	11	00090	BRB	3\$:		

; Routine Size: 146 bytes, Routine Base: \$CODE\$ + 1089

```

1231 1631 1 GLOBAL ROUTINE format_nodeadr(address) =
1232 1632 1
1233 1633 1 ---
1234 1634 1
1235 1635 1 This routine formats a 16-bit node address into an
1236 1636 1 formatted ASCII string of the form <area>.<node>.
1237 1637 1 If the area number is zero, then the area portion
1238 1638 1 is omitted.
1239 1639 1
1240 1640 1 Inputs:
1241 1641 1
1242 1642 1 address = 16-bit node address
1243 1643 1
1244 1644 1 Outputs:
1245 1645 1
1246 1646 1 Routine = Address of descriptor of string describing address
1247 1647 1
1248 1648 1 Since the string & descriptor is stored in OWN storage, it must
1249 1649 1 be copied immediately after returning (with a standard routine
1250 1650 1 such as 'append').
1251 1651 1 ---
1252 1652 1
1253 1653 2 BEGIN
1254 1654 2
1255 1655 2 OWN
1256 1656 2 string: VECTOR [40,BYTE], ! Formatted node address string
1257 1657 2 desc: VECTOR [2]; ! FA0 result string descriptor
1258 1658 2
1259 1659 2 desc [0] = 40; ! Setup descriptor for FA0
1260 1660 2 desc [1] = string;
1261 1661 2
1262 1662 2 IF .address <10,6,0> EQL 0 ! If area = 0,
1263 1663 2 THEN ! Format only node
1264 1664 2 $FA0(%ASCID '!UL', !
1265 1665 2 desc, desc, !
1266 1666 2 .address <0,10,0>)
1267 1667 2 ELSE ! Format area and node
1268 1668 2 $FA0(%ASCID '!UL;!UL', !
1269 1669 2 desc, desc, !
1270 1670 2 .address <10,6,0>, !
1271 1671 2 .address <0,10,0>);
1272 1672 2
1273 1673 2 RETURN desc;
1274 1674 2
1275 1675 1 END;

```

.PSECT \$PLITS,NOWRT,NOEXE,2

```

00 4C 55 21 011AC P.AMB: .ASCII \!UL\<0>
010E0003 01180 P.AMA: .LONG 17694723
00000000 011B4 .ADDRESS P.AMB
00 4C 55 21 2E 4C 55 21 011B8 P.AMD: .ASCII \!UL;!UL\<0>
010E0007 011C0 P.AMC: .LONG 17694727
00000000 011C4 .ADDRESS P.AMD

```

.....

CONSOLE
V04-000

1 2
16-Sep-1984 01:31:10
14-Sep-1984 12:28:46

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ER

.PSECT SOWNS,NOEXE,2

```
00000 STRING: .BLKB 40
00028 DESC: .BLKB 8
```

.EXTRN SYSSFAO

```
.PSECT $CODE$,NOWRT,2
```

```
.ENTRY  FORMAT_NODEADR, Save R2,R3
```

MOVAB SYSSFAO, R3

MOVAB	DESC. R2
MOVAB	DESC. R2

MOVL #40, DESC

MOVAB STRING, DESC+4

BITB ADDRESS+1, #252

BNEQ 15

EXTZV #0, #10, ADDRESS, -(SP)

PUSHL R2

PUSHL R2

PUSHAB P. AMA

CALLS #4, SYSSFAO

BRB	25
-----	----

EXTZV #0, #10, ADDRESS, -(SP),

EXTZV #2, #6, ADDRESS+1, -(SP)

PUSHL R2

PUSHL R2

PUSHAB P.AMC

CALLS #5, SYSSFAO

MOVAB	DESC. RO
-------	----------

RET

			000C	00000
	53	00000000G	00	9E 00002
	52	0000'	CF	9E 00009
	62		28	D0 0000E
04	A2	D8	A2	9E 00011
FC	8F	05	AC	93 00016
			13	12 0001B
	0A		00	EF 0001D
			52	DD 00023
			52	DD 00025
		0000'	CF	9F 00027
	63		04	FB 0002B
			17	11 0002E
	0A		00	EF 00030
	06		02	EF 00036
			52	DD 0003C
			52	DD 0003E
		0000'	CF	9F 00040
	63		05	FB 00044
	50		62	9E 00047
			04	0004A

7E 04 AC

7E	04	AC
7E	05	AC

```
; Routine Size: 75 bytes,    Routine Base: $CODE$ + 111B
```

THE
ME

: 1277 1676 1 END
: 1278 1677 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes					
\$PLITS	4552	NOVEC,NOWRT,	RD	NOEXE,NOSHR,	LCL, REL,	CON,NOPIC,ALIGN(2)	
\$CODE\$	4454	NOVEC,NOWRT,	RD	EXE,NOSHR,	LCL, REL,	CON,NOPIC,ALIGN(2)	
\$OWNS	48	NOVEC, WRT,	RD	NOEXE,NOSHR,	LCL, REL,	CON,NOPIC,ALIGN(2)	

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	10	0	581	00:01.1
\$255\$DUA28:[SHRLIB]NMALIBRY.L32;1	887	122	13	47	00:00.7
\$255\$DUA28:[EVL.OBJ]EVCDEF.L32;1	213	133	62	15	00:00.1

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:CONSOLE/OBJ=OBJ\$:CONSOLE MSRC\$:CONSOLE/UPDATE=(ENH\$:CONSOLE)
: Size: 4454 code + 4600 data bytes
: Run Time: 01:35.1
: Elapsed Time: 03:25.5
: Lines/CPU Min: 1057
: Lexemes/CPU-Min: 23866
: Memory Used: 1000 pages
: Compilation Complete

0156 AH-BT13A-SE
VAX/VMS V4.0

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